R10 Facility ID: 0-426107 **Facility Name:** WA DEPT OF NATURAL RESOURCES

I. Ownership of Tank(s)

System ID: 00341

R10 Owner ID: 341

Name: WA DEPT OF NATURAL RESOURCES

Street: PO BOX 47030

City: Olympia **County:** Thurston **Comments:**

State: WA **ZIP:** 98504 - 7030

Phone: (509) 902-1162 **Fax:**

Contact: (if other than Owner)

Taxpayer ID: **S.S. No:**

New: ☐ **Amended:** ☐ **Closure:** ☑

System ID: 4260107

R10 Facility ID: 0-426107

Date Received: 09 Feb 1993

Facility Operator: , *Last* *First*

II. Location of Tank(s)

Name: WA DEPT OF NATURAL RESOURCES

Street: CORNER OF COURT & N 2ND ST **Comments:**

City: Glenwood **County:** Klickitat

State: WA **ZIP:** 98619 -

Latitude: ° ' " **Longitude:** ° ' "

Phone:

III. Type of Owner

State Government

IV. Indian Lands

Indian Lands: ☑ Tanks are located on land within an Indian Reservation or on other trust lands.

Tribe Owned: ☐ Tanks are owned by native American nation or tribe.

Tribe: YAKAMA

R10 Facility ID: 0-426107 **Facility Name:** WA DEPT OF NATURAL RESOURCES

V. Type of Facility

Describe the kind of facility:

State Government

Comments:

VI. Contact Persons in Charge of Tanks

Name: DEHIMBO, MR OPEYEMI **Address:** WA DEPT NAT RES, ENGR DEPT

Phone: (206) 902-1162 **Fax:**

Contact Type: ☐ Owner ☐ Operator ☐ CA Contact ☐ Manager ☐ Outreach ☐ Location Contact
☐ RP ☐ Fee Contact ☑ Other ENGR

VII. Financial Responsibility

Facility meets financial responsibility requirements: ☑

Check all that apply:

Self-Insured:	☑	**Letter of Credit:**	☐	**Comments:**
Insurance:	☐	**State Fund:**	☑	
Risk Retention Group:	☐	**Trust Fund:**	☐	
Guarantee:	☐	**Other:**	☐	
Surety Bond:	☐	**Not Listed:**	☐	

VIII. Certification

Name: OPEYEMI DEHINBO **Title:** ENV ENG **Date:** 04 Sep 1993

R10 Facility ID: 0-426107 Facility Name: WA DEPT OF NATURAL RESOURCES

Latitude: ° ' " Longitude: ° ' "

IX. Description of Underground Storage Tanks

Federally Regulated: ☑ Compartment: ☐ AST: ☐
Amended Information: ☑ Manifolded: ☐ No Fee: ☐

Sys. Fac. ID: 4260107
Tank ID: 001

Tank Status: Permanently Out of Use **Comments:**

Rcvd:

Alt Tank ID: 1

Date Installed: Oct 1974 **Tank Capacity:** 1,000

Enter material of construction for the tank. You may supplement primary description with one of the Secondary Options.

Tank Material: Unknown **Comments:**

Sec. Tank Option: None

Check if tank has been repaired: ☐

Check if tank is used for emergency generator: ☐

Enter material of construction for the piping. You may supplement primary description with one of the Secondary Option

Piping Material: Unknown **Comments:**

Sec. Piping Option: None

Type of Pipe: Safe Suction

Check if piping has been repaired: ☐

Substance: Gasoline **Comments:**

CERCLA No.:

Description:

R10 Facility ID: 0-426107 Facility Name: WA DEPT OF NATURAL RESOURCES

X. Tanks Out of Use, or Change in Service

NOTE: This section not available unless tank status at top of form is set to a form of closure.

Date Last Used: 01 Jan 1991 **Closure Status:** Tank removed from ground

Date Closure Rcvd.: **Inert Fill :** None

Date Closed: 12 Apr 1991

Site Assessment Completed: ☑ **Evidence of a Leak Detected:** ☑

XI. Certification of Compliance

Installer certified by tank & piping manufacturer: ☐

Installer certified or licensed by implementing agency: ☐

Installation inspected by registered engineer: ☐

Installation inspected & approved by implementing agency: ☐

Manufacturer's installation checklists have been completed: ☐

Another method allowed by State agency: ☐

Comments:

	Tank/Pipe	
Manual tank gauging:	☐	
Tank tightness testing:	☐	
Inventory control:	☐	
Automatic tank gauging:	☐	
Vapor monitoring:	☐	☐
Groundwater monitoring:	☐	☐
SIR:	☐	☐
Interstit. Dbl-wall Monitor:	☐	☐
Interstit. Sec. Con. Monitor:	☐	☐

	Tank/Pipe	
Auto line leak detector:		☐
Line tightness testing:		☐
Other method:	☐	☐
Deferred:	☐	☐
Not listed:	☑	☑

Comments:

Overfill Protected: ☐ **Spill Protected:** ☐ **CP Met on Tank & Piping:** ☐

☐ **Check if deliveries limited to 25 gallons at a time (e.g., used oil tanks)**

Name: **Company:**

R10 Facility ID: 0-426107 **Facility Name:** WA DEPT OF NATURAL RESOURCES

Position: **Date Signed:**

P

NOTIFICATION DATA FOR UNDERGROUND STORAGE TANKS

FACILITY DATA

FACILITY ID NUMBER: 4-260107

OWNER'S ID : 341

DATE RECEIVED : 02-09-93

NOTIFICATION TYPE : Closure

NUMBER OF TANKS : 1

OWNERSHIP OF TANK(S):
Name : WASHINGTON DEPT OF NATURAL RESOURCES
Mailing Address: P.O. BOX 47030
City : OLYMPIA State : WA Zip Code: 98504-7030
Phone: (509) 902-1162 County: THURSTON

LOCATION OF TANK(S):
Name : WA DEPT OF NATURAL RESOURCES
Street Address: CORNER OF COURT & N 2ND STREET
City : GLENWOOD State : WA Zip Code : 98000-0000
County: KLICKITAT Latitude: NOT MARKED Longitude: NOT MARKED

OWNER TYPE : State

INDIAN LANDS :
Reservation/Trust Lands: YES
Owned by Tribe : NOT MARKED
Name of Tribe/Nation : YAKIMA

FACILITY TYPE(S):
State Government

CONTACT PERSON IN CHARGE OF TANKS:
Name : MR OPEYEMI DEHIMBO Title: ENGR
Address: WA DEPT NAT RES, ENGR DEPT, P.O. BOX 47030
City : OLYMPIA State: WA Zip Code: 98504-7030
Phone : (206) 902-1162

CERTIFICATION:
Name : OPEYEMI DEHINBO
Title: ENV ENG
Date : 09-04-93

FINANCIAL RESPONSIBILITY:
I have met the financial requirements: YES
Method(s):
Self-insured State Funds

Tank Data

FACILITY ID	4-260107
TANK ID	1

Status of Tank	
Currently In Use	
Temp. Out of Use	
Perm. Out of Use	
Amendment	X
Date of Installation	10-01-74
Age	18
Est. Total Capacity (Gals)	1,000
Material of Construction	
Asphalt or Bare Steel	
Cath. Protected Steel	
Epoxy Coated Steel	
Composite	
Fiberglass Reinf. Plas.	
Lined Interior	
Double Walled	
Poly. Tank Jacket	
Concrete	
Excavation Liner	
Unknown	X
Other, explanation	
Tank been repaired?	
Piping Material	
Bare Steel	
Galvanized Steel	
Fiberglass	
Copper	
Cathodically Protected	
Double Walled	
Secondary Containment	
Unknown	X
Other, explanation	
Piping Type	
Suction: No Valve	X
Suction: Valve	
Pressure	
Gravity Fed	
Piping been repaired?	
Substance Stored in Tank	
Gasoline	X
Diesel	
Gasohol	
Kerosene	
Heating Oil	
Used Oil	
Other, explanation	17

Tank Data

FACILITY ID 4-260107
TANK ID 1

Substance Stored in Tank
- Hazardous Substance
- CERCLA Name
- CAS Number
- Mixture
- Mixture, Specification

Tanks Out of Use/Chg. Ser.

Est. Date Last Used	01-01-91
Est. Date Tank Closed	04-12-91
Removed from Ground	X
Closed in Ground	
Filled with Inert Mat.	
Inert Mat. Description	
Change in Service	
Site Assessment Completed	X
Leak Detected	X

Installation
- Certified by Manufac.
- Certified by Imple. Agn.
- Inspected by Engineer
- Inspected by Imple. Agn
- Checklists Completed
- Another Allowed Method
- Method Description

Release Detection	Tank	Piping
Manual Tank Gauging		
Tank Tightness Testing		
Inventory Controls		
Automatic Tank Gauging		
Vapor Monitoring		
Groundwater Monitoring		
Inter. Mon./Double Wall		
Inter. Mon./Sec. Cont.		
Auto. LIne Leak Detect.		
Line Tightness Testing		
Other Method		
Other Description		

Spill and Overfill
- Overfill Device Inst.
- Spill Device Installed

Installation
- Name
- Position
- Company
- Date

OMB NO. 2050-0068, Approval Expires 9/30/91
EPA form 7530-1 (Revised 6/88)

Notification for Underground Storage Tanks

STATE USE ONLY

Agency Name and Address
U.S. EPA Region 10, Underground Storage Tank Program, 1200 Sixth Avenue WD-139, Seattle WA 98101

ID NUMBER

DATE RECEIVED

A. Date Entered Into Computer _____
B. Data Entry Clerk Initials _____
C. Owner Was Contacted to Clarify Responses/Comments

EPA REGION 10 RECEIVED
SEP 14 1993
WATER DIVISION

TYPE OF NOTIFICATION

☐ A. NEW FACILITY ☐ B. AMENDED ☒ C. CLOSURE

____ No. of tanks at facility ____ No. of continuation sheets attached

INSTRUCTIONS

Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

b) in the case of any underground storage tank in use before November 8, 1984, but no longer is use on that date, any person who owned such tank immediately before the discontinuation of its use.

c) If the State agency so requires, any facility that has undergone any changes to facility information or tank system status (only amended tank information needs to be included).

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to under ground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Send completed forms to:

U.S. EPA Region 10
Underground Storage Tank Program
1200 Sixth Avenue WD-139
Seattle, WA 98101

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use. 3. If the State requires notification of any amendments to the facility send information to State agency immediately.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
WA DEPT OF NATURAL RESOURCES

Street Address
P.O. 47030

OLYMPIA City | WA State | 98504-7030 ZIP Code

THURSTON County

206- 902-1250 Phone Number (Include Area Code)

II. LOCATION OF TANK(S)

If required by State, give the geographic location of tanks by degrees, minutes, and seconds. Examples Lat. 42, 36, 12 N Long. 65, 24, 17W

Latitude _____ Longitude _____

(If same as Section I, mark box here ☐)

Facility Name or Company Site Identifier, as applicable
GLENWOOD WORK STATION 4-260107(EPA) 100503(DOE)

Street Address (P.O. Box not acceptable)

GLENWOOD City | WA State | Zip code

KLICKITAT County | Municipality

III. TYPE OF OWNER

- ☐ Federal Government
- ☐ Commercial
- ☒ State Government
- ☐ Private
- ☐ Local Government

IV. INDIAN LANDS

Tanks are located on land within an Indian Reservation or on other trust lands. ☒

Tanks are owned by native American nation, tribe, or individual. ☐

Tribe or Nation: _____

V. TYPE OF FACILITY

Select the Appropriate Facility Description

____ Gas Station	____ Railroad	____ Trucking/Transport
____ Petroleum Distributor	____ Federal - Non-Military	____ Utilities
____ Air Taxi (Airline)	____ Federal - Military	____ Residential
____ Aircraft Owner	____ Industrial	____ Farm
____ Auto Dealership	____ Contractor	____ Other (Explain) STATE

VI. CONTACT PERSON IN CHARGE OF TANKS

Name	Job Title	Address	Phone Number (Include Area Code)
OPEYEMI DEHINBO.	ENV. ENG.	P.O.Box 47030 OLYMPIA WA 98504-7030	206-902-1162

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with 40 CFR Subpart H ☐

Check All that Apply

☒ Self Insurance	☐ Guarantee	☒ State Funds
☐ Commercial Insurance	☐ Surety Bond	☐ Trust Fund
☐ Risk Retention Group	☐ Letter of Credit	☐ Other Method Allowed Specify

VIII. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative (Print)	Signature	Date Signed
OPEYEMI DEHINBO. ENV. ENGINEER	[signature]	09-04-93

EPA estimates public reporting burden for this form to average 30 minutes per response including time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding this burden estimate to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M Street, Washington D.C. 20460, marked "Attention Desk Officer for EPA." This form amends the previous notification form as printed in 40 CFR Part 280, Appendix I. Previous editions of this notification form may be used while supplies last.

IX. DESCRIPTION OF U[illegible]ERGROUND STORAGE TANKS (Complete [illegible]ach tank at this location.)

Tank Identification Number	Tank No. 1	Tank No. ____	Tank No. ____	Tank No. ____	Tank No. ____
1. Status of Tank (mark only one)					
Currently in Use					
Temporarily Out of Use (Remember to fill out section X.)					
Permanently Out of Use (Remember to fill out section X.)	X				
Amendment of Information					
2. Date of Installation (mo./year)	OCT 1974				
3. Estimated Total Capacity (gallons)	1000				
4. Material of Construction (Mark all that apply)					
Asphalt Coated or Bare Steel					
Cathodically Protected Steel					
Epoxy Coated Steel					
Composite (Steel with Fiberglass)					
Fiberglass Reinforced Plastic					
Lined Interior					
Double Walled					
Polyethylene Tank Jacket					
Concrete					
Excavation Liner					
Unknown	X				
Other, Please specify					
Has tank been repaired?					
5. Piping (Material) (Mark all that apply)					
Bare Steel					
Galvanized Steel					
Fiberglass Reinforced Plastic					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown	X				
Other, Please specify					
6. Piping (Type) (Mark all that apply)					
Suction: no valve at tank	X				
Suction: valve at tank					
Pressure					
Gravity Feed					
Has piping been repaired?					

Tank Identification Number	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
7. Substance Currently or Last Stored In Greatest Quantity by Volume					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Other, Please specify	UNLEADED				
Hazardous Substance CERCLA name and/or, CAS number					
Mixture of Substances Please specify					

X. TANKS OUT OF USE, OR CHANGE IN SERVICE

1. Closing of Tank					
A. Estimated date last used (mo./day/year)	01-01-91				
B. Estimate date tank closed (mo./day/year)	4/12/91				
C. Tank was removed from ground	X				
D. Tank was closed in ground					
E. Tank filled with inert material					
Describe					
F. Change in service					
2. Site Assessment Completed	X				
Evidence of a leak detected	NO				

XI. CERTIFICATION OF COMPLIANCE (COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

Tank Identification Number	Tank No. ____	Tank No. ____	Tank No. ____	Tank No. ____	Tank No. ____
A. Installation (Mark all that apply)	N/A				
Installer certified by tank and piping manufacturers	☐	☐	☐	☐	☐
Installer certified or licensed by the State	☐	☐	☐	☐	☐
Installation inspected by a registered engineer	☐	☐	☐	☐	☐
Installation inspected by local or state agency	☐	☐	☐	☐	☐
Manufacturer's installation checklists have been completed	☐	☐	☐	☐	☐
Another method allowed by State agency.	☐	☐	☐	☐	☐
Please specify.	_____	_____	_____	_____	_____

B. Release Detection (Mark all that apply)	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
Manual tank gauging	☐		☐		☐		☐		☐	
Tank tightness testing N/A	☐		☐		☐		☐		☐	
Inventory controls	☐		☐		☐		☐		☐	
Automatic tank gauging	☐		☐		☐		☐		☐	
Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial monitoring double walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial monitoring/excavation liner	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Automatic line leak detectors		☐		☐		☐		☐		☐
Line tightness testing		☐		☐		☐		☐		☐
Other method allowed by Implementing Agency.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Please specify.	_____		_____		_____		_____		_____	

C. Spill and Overfill Protection	N/A				
Overfill device installed (Circle one)	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Spill device installed (Circle one)	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO

Note: The Installer must complete this section only if work on your underground storage tank system has taken place since December 22,1988.

OATH: I certify the information concerning installation that is provided in section XI is true to the best of my belief and knowledge.

Installer:

Name _____ Signature _____

Title _____ Company _____

Date _____ Certification Number _____

FILE TRACKING SHEET

Contact Name: _____ Telephone: (____) _____

Facility Name: _____ Facility # 4-260107

Address: _____

VIOLATIONS: _____

TANK SUMMARY: _____

DATE/TIME	ACTION/COMMENTS
7/15/93	Check w/ H. Scott, DOE - N/F on file closure form 4 5/a - available by

Page ____ of ____

DATE/TIME ACTION/COMMENTS

United States
Environmental Protection
Agency

Region 10
1200 Sixth Avenue
Seattle WA 98101

Alaska
Idaho
Oregon
Washington

EPA

August 11, 1993

Reply to
Attn of: WD-133

Opeyemi Dehimbo
Washington Department of Natural Resources
Engineering Department
Post Office Box 47030
Olympia, Washington 98504-7030

RE: Underground Storage Tank Facility #4-260107

Dear Mr. Dehimbo:

The Environmental Protection Agency (EPA) Form 7530-1 (Notification for Underground Storage Tanks) is not on file in this office. I have enclosed the form to be completed, please return it by September 8, 1993. Because your tanks are located on Indian land or within the boundaries of an Indian reservation, it is being regulated by the EPA rather than being included in the statewide notification program conducted by your state. A copy of your notification form will also be provided to your local Tribal UST Coordinator.

You have been assigned identification number 4-260107; this number should be included on all correspondence to us regarding any tank at this location.

Thank you for your cooperation in this program. If you have any questions, please contact me at (206) 553-2580.

Sincerely,

Katherine M. Holt

Katherine M. Holt, Data Manager
UST Program

4-260107-341

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

February 17, 1993

Reply to
Attn of: WD-133

MEMORANDUM

SUBJECT: Underground Storage Tanks on Indian Lands

FROM: Marcie Price Marcie Price
Indian Database Coordinator

TO: Underground Storage Tank Program
Washington Department of Ecology

The Environmental Protection Agency (EPA) has been advised that there are two underground storage tank facilities listed with the Washington Department of Ecology (DOE). Those two facilities are:

Klickitat County Shop (Washington ID #011505)
Klickitat County Public Works
East Main Street at Northwest Division Street
Glenwood, Washington

Washington Dept. of Natural Resources (WDNR)
(Washington ID #100503)
On the corner of Court and North Second Street
Glenwood, Washington

EPA has assigned Klickitat County Shop with the new ID #4-260106, and WDNR with ID #4-260107. EPA is requesting DOE to close out its records on these two sites and to send EPA the related files.

Thank you for your cooperation in this matter. If you have any questions, please call me at (206) 553-2580.

4-260107

>>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<
Change which line?

EPA UST-DMS, Release 2.5, LUST Screen 1 (I-1/7)
EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1] 03 Tank ID [1]
04 Owner ID [341] 05 Is this a Federally regulated tank? [Y]
06 Investigator's Initials [WOO] 07 Finance Code [ ]

Owner's Name : WASHINGTON DEPT OF NATURAL RESOU
Location Name: WA DEPT OF NATURAL RESOURCES
Address: CORNER OF COURT & N 2ND STREET

City: GLENWOOD State: WA Zip Code: 98000-0000
County: KLICKITAT

08 Site Code	Description	Date
[01> 40]	{CONFIRMED RELEASE. }	[09-25-92]
[02>]	{ }	[ ]
[ ]	{ }	[ ]

Comment: [REPORTED BY TOM SUNDAY OF E.P. CONSTRUCTION]
[ ]
[ ]

>>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<

Press <Enter> for next screen, (S) to file & start over, or # of screen:

EPA UST-DMS, Release 2.5, LUST Screen 2 (I-2/7)
EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1] 03 Tank ID [1]
Owner's Name: WASHINGTON DEPT OF NAT Location Name: WA DEPT OF NATURAL RES

04 Priority Code [01> 1]{THIS IS A TEST CODE. } Affected Date [ ]
[02>]{ } [ ]

REPORTING PARTY INFORMATION

06 Type [90] Description: OTHER
07 Name [01> TOM SUNDAY] Title [REGISTERED SITE ASSE
[02> E.P. CONSTRUCTION, INC.] [ ]
Address [RT. 7, BOX 430-B] City [KENNEWICK]
[ ] [ ]
State [WA] Zip [99337] Phone [(509) 735-2479]
[ ] [ ] [ ]

14 Comment: [ ]
[ ]

>>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<

Press <Enter> for next screen, (S) to file & start over, or # of screen:

EPA UST-DMS, Release 2.5, LUST Screen 3 (I-3/7)
EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1] 03 Tank ID [1]
Owner's Name: WASHINGTON DEPT OF NAT Location Name: WA DEPT OF NATURAL RES

04 Notification Date [11-11-11] 05 Inspection Date [11-11-11]

CORRESPONDENCE INFORMATION

06 Code	Description	Date Required	Date Rec/Approved	Date Closed
[01> 10]	{CONFIRMATION OF RELEASE. }	[ ]	[ ]	[ ]
[02>]	{ }	[ ]	[ ]	[ ]
[ ]	{ }	[ ]	[ ]	[ ]
[ ]	{ }	[ ]	[ ]	[ ]

Date Sent	Comments
[ ]	[NEW WDNR SITE ASSESSOR-OPEYEMI DEHIMBO]
[ ]	[ ]
[ ]	[ ]
[ ]	[ ]

>>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<

Press <Enter> for next screen, (S) to file & start over, or # of screen:

EPA UST-DMS, Release 2.5, LUST Screen 4 (I-4/7)
EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1] 03 Tank ID [1]
Owner's Name: WASHINGTON DEPT OF NAT Location Name: WA DEPT OF NATURAL RES

FORECAST

04 Has Owner/Operator been identified? [Y]
05 Date Identified [09-25-92]
06 Is Owner/Operator capable of conducting cleanup? [Y]
07 Has the responsible party been identified? [Y]
08 Date Identified [09-25-92]
09 Has the Responsible Party search been completed? [Y]
10 Date search was completed [ ]
11 Does the State plan to spend over $100,000 of Federal Trust Fund Money at the site? [N] 12 If yes, how much? [ ]
13 When is expenditure planned? [ ]
14 Has the State obligated over $100,000 of Federal Trust Fund Money at the site? [N] 15 If yes, how much? [ ]
16 Has the State spent over $100,000 of Federal Trust Fund Money at the site? [N] 17 If yes, how much? [ ]

>>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<

Press <Enter> for next screen, (S) to file & start over, or # of screen:

EPA UST-DMS, Release 2.5, LUST Screen 5 (I-5/7)
EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1] 03 Tank ID [1]
Owner's Name: WASHINGTON DEPT OF NAT Location Name: WA DEPT OF NATURAL RES

FORECAST (continued)

How much money has been spent at the site?
04 State [ ] 05 Federal [ ] 06 Other [ ]
07 Has the State issued a demand letter or bill for cost recovery? [ ]

```
08 $ value of the cost recovery binding settlement/judgment [              ]
   What is the dollar value of the costs recovered?
09 State [              ]              10 Federal [              ]
11 Date the cost recovered amount was input [        ]
12 Does the State plan to use innovative or experimental technology? [N]
13 If yes, what kind? [01>     ]    {                          }
                      [       ]    {                          }
14 Does the State plan to provide a permanent alternative water supply? [N]
15 Does the State plan to permanently relocate residents? [N]

          >>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<
Change which line?
```

```
                    EPA UST-DMS, Release 2.5, LUST Screen 6          (I-6/7)
                      EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1            ]    03 Tank ID [1          ]
  Owner's Name:  WASHINGTON DEPT OF NAT Location Name: WA DEPT OF NATURAL RES

                                LEAK INFORMATION
04 Were inventory records provided? [N]          05 Date [        ]
06 Type of Facility [ 40]{STATE GOVERNMENT             }

07 Product          Description                          Est. Quantity Lost
[01> 10  ]  {GASOLINE                                }    [      UNK]
[02>     ]  {                                        }    [         ]
[        ]  {                                        }    [         ]
09 Cause:  STORED SUBSTANCE UNK.

10 Detection Method [01> UNK                                          ]
                    [02>                                              ]
11 Leak Impact [01> UNK                                               ]
               [02>                                                   ]

          >>> PRESS F1 KEY FOR FIELD HELP; ALT-F1 FOR SCREEN HELP <<<

Press <Enter> for next screen, (S) to file & start over, or # of screen:
```

```
                    EPA UST-DMS, Release 2.5, LUST Screen 7          (I-7/7)
                      EPA Region 10, U.S. EPA, Region 10

01 Facility ID [4-260107] 02 Leak ID [1            ]    03 Tank ID [1          ]
  Owner's Name:  WASHINGTON DEPT OF NAT  Location Name:WA DEPT OF NATURAL RES

                          STATE SPECIFIC INFORMATION

04 STATE 1 [LUST SITE          ]
05 STATE 2 [SA DONE            ]
06 STATE 3 [                   ]
07 STATE 4 [                   ]
08 STATE 5 [                   ]
```

Facility # 4-260107

LUST

SITE

PHONE MEMO

TO ~~Tom~~ SP

FROM Judy Holt

OF EPA

DATE 7-29

TIME 12 — AM PM

AREA CODE

NO. 503-2580

EXT.

MESSAGE

100503 Dept of Natural Resource

needs notification form + everything in file

SIGNED SP

PHONED ☐ CALL BACK ☐ RETURNED CALL ☐ WANTS TO SEE YOU ☐ WILL CALL AGAIN ☐ WAS IN ☐ URGENT ☐

PHONE MEMO

TO

FROM Judy Holt

OF EPA

DATE 8-3-93

TIME AM PM

AREA CODE

NO. 5 :580

EXT.

MESSAGE

notification / closure

100503

(call + send) WA Dept NR

SIGNED

PHONED ☐ CALL BACK ☐ RETURNED CALL ☐ WANTS TO SEE YOU ☐ WILL CALL AGAIN ☐ WAS IN ☐ URGENT ☐

4-260107

FORM A
Rev 4/02/90

UST ADJUSTMENT
TANK DELETIONS

TO BE USED FOR TANK DELETIONS

Section I

Customer Name Dept. of Natural Resources Site Number 100503

Customer Number U0007342 Invoice Number 19274, 19334

Initiated By S. Dixon (Name) Date 8-10-93

Section II

** IF THIS IS A CHANGE IN OWNERSHIP, ATTACH FORM D.

** IF THIS IS A CHANGE THAT CREATES A REFUND, ATTACH FORM B.

Number of Tanks deleted _____ Amount $ 60 - 60 -

Tank ID Number(s) /

Please Send Statement Y (N)

Remove From Pending Y (N)

Approved By Shari Dixon (Name) Date 8-10-93

COMMENTS tank on Indian Lands - not billable

EPA - REGION 10
RECEIVED
JAN 03 1994
WATER DIVISION
DRINKING WATER/GROUND WATER

DNR

MA 3E/SA/CEO

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Mail Stop PV-11 • Olympia, Washington 98504-8711 • (206) 459-6000

EPA – REGION 10
RECEIVED
JAN 03 1994
WATER DIVISION
DRINKING WATER/GROUND WATER

8/21/91

Dear Underground Storage Tank Owner:

We recently received information on the following site and tank(s) which indicates that the tank(s) have been closed:

Site Address: Glenwood

Site No: 100503 Tank Ids: 1

Until we receive documentation that the tank(s) have been permanently closed in accordance with federal and state regulations, we are unable to consider them closed for regulatory and billing purposes. If such closure has been completed, please fill out the enclosed form(s) as marked below and return them to our office as soon as possible. We will then be able to correct our records and resolve any outstanding fee payment issues relating to this site.

For tanks closed before April 1, 1991:

_____ Permanent Closure/Change-in-Service Checklist

For tanks closed after April 1, 1991:

_____ Permanent Closure/Change-in-Service Checklist
_____ Site Check/Site Assessment Checklist
_____ 2 copies of Site Assessment Report

Please complete the forms and return them to:

Washington State Department of Ecology
Underground Storage Tank Section
Mail Stop PV-11
Olympia, WA 98504-8711

Thank you for your cooperation. If you have any questions, please call me at (206) 459-6288.

Sincerely,

Melissa Underwood
Data Management Unit

Enclosures

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

DNR Copy Eastern WA

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
SEP 12 1991

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: DNR.

Owners Address: _____ (Street) _____ (P.O. Box)

_____ (City) _____ (State) _____ (ZIP-Code)

Telephone: 206 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood

Site Address: _____ (Street)

Glenwood (City) WA (State) _____ (County) _____ (ZIP Code)

EPA – REGION 10
RECEIVED
JAN 03 1992
WATER DIVISION
DRINKING WATER/GROUND WATER

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: Michael Curry

Address: P.O. Box 112137 (Street)

Tacoma (City) WA (State) 98411 (P.O. Box / ZIP-Code)

Telephone: (206) 572-9934

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): 1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Last substance stored: unleaded

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

EPA – REGION 10
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JAN 03 1994
WATER DIVISION
DRINKING WATER/GROUND WATER

_____ Investigate suspected release due to on-site environmental contamination

_____ Investigate suspected release due to off-site environmental contamination

_____ Extend temporary closure of UST system for more than 12 months

_____ UST system undergoing change-in-service

_____ UST system permanently closed-in-place

X UST system permanently closed with tank removed

_____ Required by Ecology or delegated agency for UST system closed before December 22, 1988

_____ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	MRC	
2. Has a release from the UST system been confirmed? ***NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.***		MRC
3. Are the results of the site check/site assessment enclosed with this checklist? ***NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.***	MRC	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

4-12-91
Date

Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

6-3-91
Date

Michele L. Britton
Signature of Tank Owner or Authorized Representative

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a **Licensed Decommissioning Supervisor.** The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a **Service Provider.** If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: WA STATE DEPT. OF NATURAL RESOURCES

Owners Address: 1102 S. QUINCE, EV-11 (Street / P.O. Box)

OLYMPIA (City) WA (State) 98504 (ZIP-Code)

Telephone: ( ) 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: GLENNWOOD

Site Address: (Street / County)

(City / State / ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: License Number:

Address: (Street / P.O. Box)

(City / State / ZIP-Code)

Telephone: ( )

Licensed Supervisor: Decommissioning License Number:

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): _____ 2. Year installed: _____
3. Tank capacity in gallons: _____ 4. Date of last use: _____
5. Last substance stored: _____ 6. Date of closure/change-in-service: _____
7. Type of closure: Closure with Tank Removal ☐ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance: _____
9. If change-in-service, indicate new substance stored in tank: _____
10. Local permit(s) (if any) obtained from: _____

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes ☐ No ☐

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?			
2. Has all product piping been capped or removed?			
3. Have all non-product lines been capped or removed?			
4. Have all liquid and accumulated sludges been removed from the tank?			
5. Has the tank been properly purged or inerted?			
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?			
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.			
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?			
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?			

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

Date _____ Signature of Licensed Supervisor _____

5. ADDITIONAL REQUIRED SIGNATURES

Date _____ Signature of Licensed Service Provider (firm) Owner or Authorized Representative _____

Date _____ Signature of Tank Owner or Authorized Representative _____

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: WA STATE DEPT. OF NATURAL RESOURCES

Owners Address: 1102 S. QUINCE, EV-11
(Street / P.O. Box)

OLYMPIA WA 98504
(City / State / ZIP-Code)

Telephone: ( ) 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: GLENNWOOD

Site Address:
(Street / County)

(City / State / ZIP-Code)

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person:

Address:
(Street / P.O. Box)

(City / State / ZIP-Code)

Telephone: ( )

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): _____ 2. Year installed: _____

3. Tank capacity in gallons: _____ 4. Last substance stored: _____

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination

_____ Investigate suspected release due to off-site environmental contamination

_____ Extend temporary closure of UST system for more than 12 months

_____ UST system undergoing change-in-service

_____ UST system permanently closed-in-place

_____ UST system permanently closed with tank removed

_____ Required by Ecology or delegated agency for UST system closed before December 22, 1988

_____ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?		
2. Has a release from the UST system been confirmed? ***NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.***		
3. Are the results of the site check/site assessment enclosed with this checklist? ***NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.***		

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

Date _____ Signature of Person Registered with Ecology _____

6. OWNER'S SIGNATURE

Date _____ Signature of Tank Owner or Authorized Representative _____

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
SEP 12 1991

EPA - REGION 10
RECEIVED
JAN 03 1994
WATER DIVISION
DRINKING WATER/GROUND WATER

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: D.N.R.

Owners Address: _____ (Street) _____ (P.O. Box)

_____ (City) _____ (State) _____ (ZIP-Code)

Telephone: (206) 753-2093 (Frank Rush)

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood Work Center

Site Address: _____ (Street) _____ (County)

Glenwood (City) WA. (State) _____ (ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: Tecon Inc. License Number: S001692

Address: P.O. Box 112137. (Street)

Tacoma (City) WA (State) 98411-2137 (P.O. Box / ZIP-Code)

Telephone: (206) 581-5934

Licensed Supervisor: Michael Curry Decommissioning License Number: W000354

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): #1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Date of last use:
5. Last substance stored: Unleaded
6. Date of closure/change-in-service: 4-2-91
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance:
9. If change-in-service, indicate new substance stored in tank:
10. Local permit(s) (if any) obtained from: Demo Permit County
11. Has a site assessment been completed? Yes [X] No [ ]

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WATER DIVISION
DRINKING WATER/GROUND WATER

Always contact local authorities regarding permit requirements.

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	MRC		
2. Has all product piping been capped or removed?	MRC		
3. Have all non-product lines been capped or removed?	MRC		
4. Have all liquid and accumulated sludges been removed from the tank?	MRC		
5. Has the tank been properly purged or inerted?	MRC		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	MRC		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	MRC		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	MRC		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	MRC		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC

7-9-91 — Date

Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

7-9-91 — Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

7-16-91 — Date

Signature of Tank Owner or Authorized Representative

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

SN 54

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a **Licensed Decommissioning Supervisor.** The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a **Service Provider.** If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

AUG 0 2 1991

EPA – REGION 10
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JAN 0 3 1994
WATER DIVISION
DRINKING WATER/GROUND WATER

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: D.N.R.

Owners Address: Street / P.O. Box

City / State / ZIP-Code

Telephone: (206) 753-2093 (fraw l Rnsh)

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood Work Center

Site Address: Street / County

Glenwood WA.
City / State / ZIP-Code

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: Tecon Inc. License Number: S001692

Address: P.O. Box 112137. Street / P.O. Box

Tacoma WA 98411-2137
City / State / ZIP-Code

Telephone: (206) 581-9934

Licensed Supervisor: Michael Curry Decommissioning License Number: W000354

In-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): #1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Date of last use:
5. Last substance stored: unleaded
6. Date of closure/change-in-service: 4-12-91
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance:
9. If change-in-service, indicate new substance stored in tank:
10. Local permit(s) (if any) obtained from: Demo permit County

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes [X] No [ ]

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	MRC		
2. Has all product piping been capped or removed?	MRC		
3. Have all non-product lines been capped or removed?	MRC		
4. Have all liquid and accumulated sludges been removed from the tank?	MRC		
5. Has the tank been properly purged or inerted?	MRC		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	MRC		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	MRC		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	MRC		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	MRC		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

7-9-91 — Date

Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

7-9-91 — Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

7-16-91 — Date

Signature of Tank Owner or Authorized Representative

4/4? 4OWZ542 100503

ECOLOGY

UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure activities. It must be signed and dated by either the owner/operator of the UST to be closed or his/her authorized representative. (This could be the firm contracted to do the work.) Ecology will notify the identified person of the earliest date closure/decommissioning activities may commence.

For questions on completing this form please call (206) 459-6293.

Please type or use ink.

The completed checklist should be mailed to:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
RECEIVED
JAN 18 1991

1. TANK OWNER AND LOCATION

UST Owner/Operator: WA STATE DEPT. OF NATURAL RESOURCES

Owners Mailing Address: 1102 S. QUINCE, EV-11 (Street) (P.O. Box)

OLYMPIA (City) WA (State) 98504 (ZIP-Code)

Telephone: ( ) 753-2093

EPA - REGION 10
RECEIVED
JAN 03 1994
WATER DIVISION
DRINKING WATER/GROUND WATER

Site ID Number (on invoice or available from Ecology if tank is registered): N/A

Site/Business Name: DNR GLENWOOD, SE

Site Address: (Street) (County)

GLENWOOD (City) WA (State) (ZIP-Code)

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):

Firm: UNKNOWN, CONTRACTOR

Address: (Street) (P.O. Box)

(City) (State) (ZIP-Code)

Telephone: ( ) Contact Name:

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
1	03-1991	1000	16	UNLEADED
→ 2	"	300	27	DIESEL

Boulder ground

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE:

[signature] (Signature) ENVIRONMENTAL ENGINEER (Title) 01-15-91 (Date)

ECY 101-155 11/90

Mc Rush et NR. - Cst. Dist.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Mail Stop PV-11 • Olympia, Washington 98504-8711 • (206) 459-6000

January 24, 1991

Mr. Ayman Oubari
Dept. of Natural Resources
Division of Engineering
1102 S. Quince, EV-11
Olympia, WA 98504

Dear Mr. Oubari:

This is to acknowledge receipt of your 30-day notice of intent to close underground storage tank(s) located at DNR Glenwood, Belfair, Washington.

We received your letter on January 18, 1991.

Your 30-day notice has been forwarded to the appropriate regional office. Field people with the Underground Storage Tank Program may visit your site within the 30-day period. However, with the many tank closures now taking place, it will not be possible to visit every site. If you have not been contacted by the time thirty days have elapsed from the date we received your notice letter (noted above), you may proceed with closure.

If you did not request a full closure packet, but would like to receive one, you may do so by calling 1-800-826-7716 (in Washington state only) or 206-459-6293. This closure packet contains a form entitled "Notice of Permanent Closure of Underground Storage Tank(s)". For your convenience, we have enclosed a copy of this form. Please complete this form and return it to the Department of Ecology when tank closure is complete.

Sincerely,

Sue L. Simms
Regulatory Specialist

SLS:sd

Enclosure

From: ROBERT CUTLER
To: R10SEA1.WATER.HOLT-KATHERINE
Date: 11/4/97 10:20am
Subject: Glenwood DNR LUST Site: 4-260107

Please send a closure letter, as they have satisfied all cleanup requirements.
Note: the site contact for DNR is now Ayman Obari, 360-902-1158.

Robert Cutler/WOO

CC: R10SEA1.WATER.SCOTT-HAROLD

Underground[illegible]torage Tank Self-Certification [illegible]Compliance l

This tank has been removed 5-91

his form must be completed and signed fo[illegible]e underground storage tank identified belo[illegible] receive a perr
f Ecology. Without a permit, the tank cannot receive product or be operated (in the case of waste oil tanks,
roduct removed).

OWNER NUMBER: U0007542

OWNER: WASH. ST. DEPT. OF NATURAL RESOURCES
1102 S QUINCE M/S EV-11

OLYMPIA, WA. 98504-

TEL NO: (206) 459-6402

TANK SIZE: 1000-4999 GALLONS
YEAR INSTALLED: 1973

SITE NUMBER: 100503

SITE: DNR GLENWOOD, SE
ADDR: GLENWOOD

GLENWOOD, WA. 98615-

TANK ID NO: 1
STATUS: OPERATIONAL
FY91 FEE PAID: NO

INFORMATION REGARDING FINANCIAL RESPONSIBILITY:
This must be completed for the Underground Storage Tank Permit to be validated.

1. Mark the box which accurately describes the UST identified by the above Tank ID number:
   - a. ☐ The UST is owned by the state or federal government.
   - b. ☐ The UST stores a non-petroleum hazardous substance.
   - c. ☐ The UST is a deferred tank (listed on page 9 of the guide).
   - d. ☐ None of the above.
2. Financial Responsibility Compliance Category.
   Enter the appropriate letter from page 6 or 7 of the Self-Certification Guide: _____
3. Financial Responsibility Compliance Method(s).
   Enter the appropriate letter(s) from page 8 of the Self-Certification Guide: _____

SWORN STATEMENT:
I hereby swear under penalty of law that, based on my review of the UST Self-Certification Guide and my knowledge of the tank identified by the above Tank ID Number, this tank is in compliance with the applicable state requirements. Also, the information required above regarding financial responsibility requirements has been accurately entered for this tank. I understand that if this is a false statement the permit for the UST may be immediately revoked and I may be subject to penalties under Chapter 173-360 WAC.

print or type: _____
Name and Official Title of UST Owner or UST Owner's Authorized Representative

_____ _____ _____
Signature of UST Owner or Authorized Representative | Date Signed | Telephone Number

[Do not detach. Return both parts to Ecology]

Underground Storage Tank Permit

This permit only valid when stamped by the Department of Ecology.

IN STATEMENT:

y swear under penalty of law that the underground storage tank ied at right is in compliance with applicable state requirements.

_____
Name and Official Title of UST Owner or UST Owner's Authorized Representative

_____ _____
Signature of UST Owner or Authorized Representative | Date Signed

Site Location:

GLENWOOD

GLENWOOD, WA. 98615-

SITE NUMBER: 100503
TANK ID NO: 1

Owner:

WASH. ST. DEPT. OF NATURAL RESOURCES
1102 S QUINCE M/S EV-11

OLYMPIA, WA. 98504-

If the permit should be sent to an address different from the owner's, please place a correctly addressed mailing label over the address shown above.

Space for owner to identify tank to product distributor:

65

Underground[illegible]torage Tank Self-Certification [illegible]Compliance l

This tank has been removed 5-91

his form must be completed and signed fo[illegible]e underground storage tank identified belo[illegible] receive a perr
f Ecology. Without a permit, the tank cannot receive product or be operated (In the case of waste oil tanks,
roduct removed).

OWNER NUMBER: U0007542

OWNER: WASH. ST. DEPT. OF NATURAL RESOURCES
1102 S QUINCE M/S EV-11

OLYMPIA, WA. 98504-

TEL NO: (206) 459-6402

TANK SIZE: 1000-4999 GALLONS
YEAR INSTALLED: 1973

SITE NUMBER: 100503

SITE: DNR GLENWOOD, SE
ADDR: GLENWOOD

GLENWOOD, WA. 98615-

TANK ID NO: 1
STATUS: OPERATIONAL
FY91 FEE PAID: NO

INFORMATION REGARDING FINANCIAL RESPONSIBILITY:
This must be completed for the Underground Storage Tank Permit to be validated.

1. Mark the box which accurately describes the UST identified by the above Tank ID number:
   - a. ☐ The UST is owned by the state or federal government.
   - b. ☐ The UST stores a non-petroleum hazardous substance.
   - c. ☐ The UST is a deferred tank (listed on page 9 of the guide).
   - d. ☐ None of the above.
2. Financial Responsibility Compliance Category.
   Enter the appropriate letter from page 6 or 7 of the Self-Certification Guide: _____
3. Financial Responsibility Compliance Method(s).
   Enter the appropriate letter(s) from page 8 of the Self-Certification Guide: _____

SWORN STATEMENT:
I hereby swear under penalty of law that, based on my review of the UST Self-Certification Guide and my knowledge of the tank identified by the above Tank ID Number, this tank is in compliance with the applicable state requirements. Also, the information required above regarding financial responsibility requirements has been accurately entered for this tank. I understand that if this is a false statement the permit for the UST may be immediately revoked and I may be subject to penalties under Chapter 173-360 WAC.

print or type: _____
Name and Official Title of UST Owner or UST Owner's Authorized Representative

_____ _____ _____
Signature of UST Owner or Authorized Representative | Date Signed | Telephone Number

[Do not detach. Return both parts to Ecology]

Underground Storage Tank Permit

This permit only valid when stamped by the Department of Ecology.

IN STATEMENT:

y swear under penalty of law that the underground storage tank ed at right is in compliance with applicable state requirements.

_____
Name and Official Title of UST Owner or UST Owner's Authorized Representative

_____ _____
Signature of UST Owner or Authorized Representative | Date Signed

Site Location:

GLENWOOD

GLENWOOD, WA. 98615-

SITE NUMBER: 100503
TANK ID NO: 1

Owner:

WASH. ST. DEPT. OF NATURAL RESOURCES
1102 S QUINCE M/S EV-11

OLYMPIA, WA. 98504-

If the permit should be sent to an address different from the owner's, please place a correctly addressed mailing label over the address shown above.

Space for owner to identify tank to product distributor:

65

Syrian

Ayman Obari

Glenwood

902-1158

ENV. ENG. @ DNR

EPA

United States
Environmental Protection
Agency

Washington Operations Office
c/o Washington State Department of Ecology PV-11
Olympia WA 98504
(206) 753-9437
FTS 8-434-9437

1/6/93 - Obe Oehimbo, DNR
No release at UST pull.

Situation - contractor
Contamination fr heavy oils - source unknown

Tanks pulled in good condition - Unleaded

Do not know where contamination came from.

Stockpile to State land to landfarm.

Personnel

Will send report to me.

1/25
Rec'd original
UST removal report.

EPA

United States
Environmental Protection
Agency

Washington Operations Office
c/o Washington State Department of Ecology PV-11
Olympia WA 98504
(206) 753-9437
FTS 8-434-9437

~~753-5000~~
902-1200

Ope Oehimbo, DNR, 902-1162
(Env. Spec.)

Msg - 12/28

Mid-Jan - final report
Soil pile clean

Underground Storage Tank Self-Certification of Compliance I

This form must be completed and signed for the underground storage tank identified below to receive a permit of Ecology. Without a permit, the tank cannot receive product or be operated (in the case of waste oil tanks, product removed).

This tank has been removed 5-91

OWNER NUMBER: U0007542

OWNER: WASH. ST. DEPT. OF NATURAL RESOURCES
1102 S QUINCE M/S EV-11

OLYMPIA, WA. 98504-

TEL NO: (206) 459-6402

TANK SIZE: 1000-4999 GALLONS
YEAR INSTALLED: 1973

SITE NUMBER: 100503

SITE: DNR GLENWOOD, SE
ADDR: GLENWOOD

GLENWOOD, WA. 98615-

TANK ID NO: 1
STATUS: OPERATIONAL
FY91 FEE PAID: NO

INFORMATION REGARDING FINANCIAL RESPONSIBILITY:

This must be completed for the Underground Storage Tank Permit to be validated.

1. Mark the box which accurately describes the UST identified by the above Tank ID number:
   - a. ☐ The UST is owned by the state or federal government.
   - b. ☐ The UST stores a non-petroleum hazardous substance.
   - c. ☐ The UST is a deferred tank (listed on page 9 of the guide).
   - d. ☐ None of the above.
2. Financial Responsibility Compliance Category. Enter the appropriate letter from page 6 or 7 of the Self-Certification Guide: _____
3. Financial Responsibility Compliance Method(s). Enter the appropriate letter(s) from page 8 of the Self-Certification Guide: _____

SWORN STATEMENT:

I hereby swear under penalty of law that, based on my review of the UST Self-Certification Guide and my knowledge of the tank identified by the above Tank ID Number, this tank is in compliance with the applicable state requirements. Also, the information required above regarding financial responsibility requirements has been accurately entered for this tank. I understand that if this is a false statement the permit for the UST may be immediately revoked and I may be subject to penalties under Chapter 173-360 WAC.

print or type: _____
Name and Official Title of UST Owner or UST Owner's Authorized Representative

_____ _____ _____
Signature of UST Owner or Authorized Representative | Date Signed | Telephone Number

[Do not detach. Return both parts to Ecology]

Underground Storage Tank Permit

This permit only valid when stamped by the Department of Ecology.

/ORN STATEMENT:

ereby swear under penalty of law that the underground storage tank ntified at right is in compliance with applicable state requirements.

nt or e: _____

Name and Official Title of UST Owner or UST Owner's Authorized Representative

_____ _____
Signature of UST Owner or Authorized Representative | Date Signed

Site Location:

GLENWOOD

GLENWOOD, WA. 98615-

SITE NUMBER: 100503
TANK ID NO: 1

Owner:

WASH. ST. DEPT. OF NATURAL RESOURCES
1102 S QUINCE M/S EV-11

OLYMPIA, WA. 98504-

If the permit should be sent to an address different from the owners, please place a correctly addressed mailing label over the address shown above

Space for owner to identify tank to product distributor:

10-165

U.S. Environmental Protection Agency
Washington Operations Office

11/26/91

UST SITE VISIT CHECKLIST

Date 10/23/92	Time
Fac. ID	Contact Marty Dixon
Owner	Fac. Name DNR facility
Address	Location Glenwood, corner Court + N. 2nd.
Phone	Phone

NOT. DATA

Tank #	1	2	3	4	5	6	7
Capacity							
Substance							
Status							
Installed							
Material–T							
Material–P							
RD–Tank							
RD–Pipe							
Cor. Prot.							
Spill							
Overfill							

NOT. CHGS

Tank #	1	2	3	4	5	6	7
Capacity							
Substance							
Status							
Installed							
Material–T							
Material–P							
RD–Tank							
RD–Pipe							
Cor. Prot.							
Spill							
Overfill							

Not. Com.: _____

SITE INFO Level ground w/loam and glacial gravels. Intown with adjacent residences. Appears to be community water + sewer.

— See Video footage

RECORDS Dip tank - ~~#~~ 200
Gas, Unleaded 1,000 - contamination with gas (maybe)

9/91 - pulled tank - thought they had notified WDOE.
Spoils pulled out this summer.
Do not know what funds.
Ac- Eng. Div. - Oly

ADD. COM: Jerry Wilker - 509-~~#~~ 364-3510 (other work at site)
* (Inch) Steve Brown - 509-493-3218 (Hudson)

SUMMARY: Followup with DNR, Olympia + WDOE

Robert B. Luth
Inspector

WASHINGTON STATE DEPARTMENT OF
Natural Resources

BRIAN BOYLE
Commissioner of Public Lands

Engineering Division
P.O. Box 47030
Olympia, WA 98504-7030

January 6, 1993

Robert Cutler
US E.P.A
WA Operations Office
c/o WA D.O.E
P.O.Box 47600
Olympia, WA 98504.

Re: **Glenwood Workstation UST Removal**

Dear Robert:

This is a follow up on your telephone enquiries and our discussion of 01-06-93.
As I earlier explained, The Glenwood workstation Underground Storage Tank removal was carried out under Department of Natural Resources(DNR) Project # 91-F538 (Eastern Washington UST Removal).

The tank decommissioning was done by Trecon, Permanent Closure/ Change-In-Service Checklist and Site Check/Site Assessment Checklist was completed and sent to DOE as required.

There was no indication of release, based on the sampling done during decommissioning, laboratory analysis supports this. Although heavy oil contamination was encountered at a different location due to past activities. This discovery was not taken care of under this contract because it was not UST related, nevertheless a new project was set-up to excavate and remediate the heavy oil contaminated soil.

During the excavation of the heavy oil contaminated soil, Large amount of Petroleum Contaminated Soil was encountered, excavated and stored on site.under Project # DNR 92-F12.

DNR is currently training personnel on 40 hr. Health and Safety (HAZWOPER)for in-house remediation by landfarming the soil and

Aeration by rototilling either on site(Space permitting) or transporting to another DNR site for the same purpose.

Attached, are Field notes of the UST removal, Laboratory analysis chain of custody,Laboratory results, Tank disposal receipts and initial site assessment checklist.

Please contact me at (206) 902-1162, should you have any more questions.

Sincerely,

Opeyemi Dehinbo
Environmental Engineer
Engineering Division
P.O.Box 47030
Olympia, WA 98503-7030.

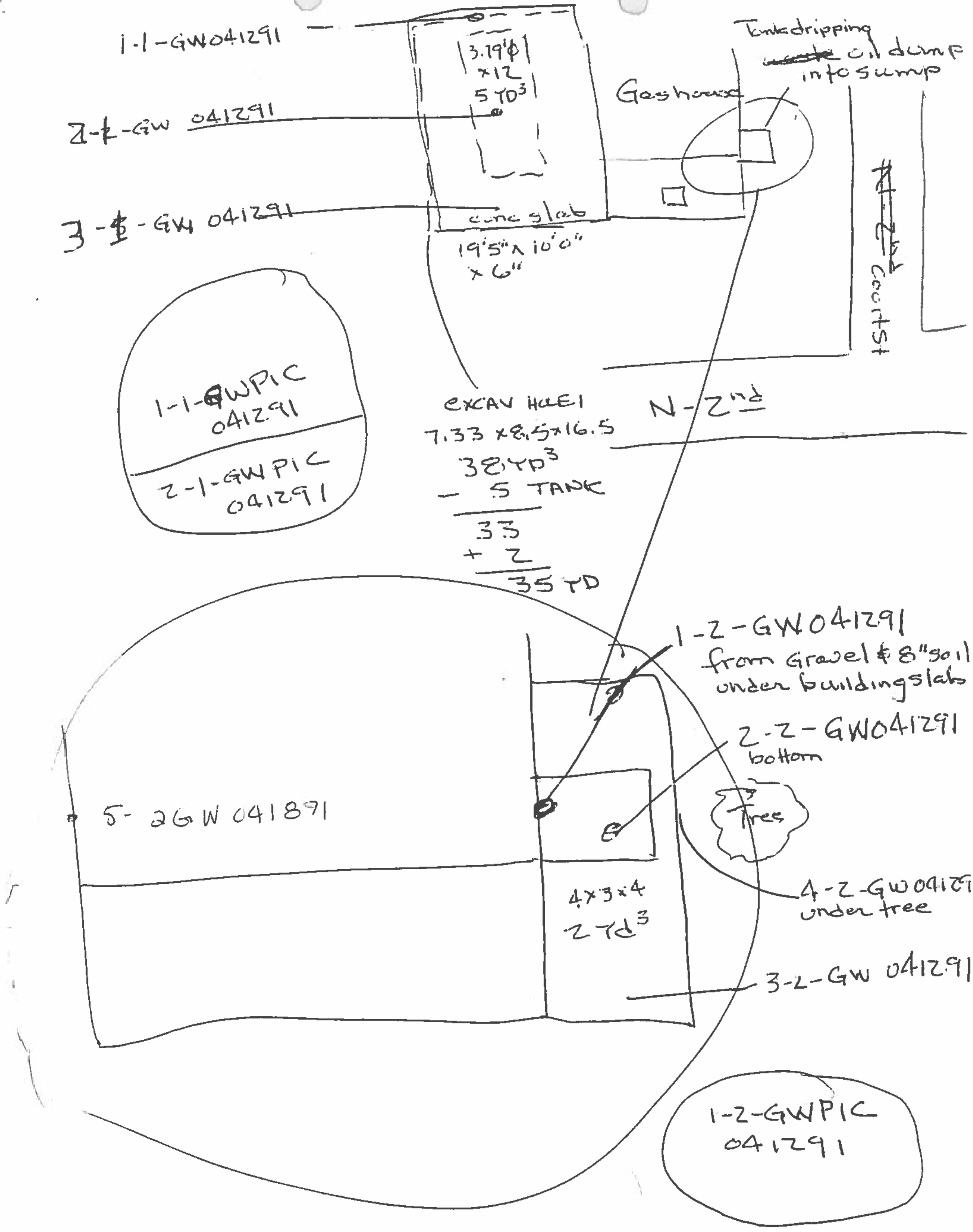
CC Tony Ifie
Jim Hurst

PROJECT INDEX/LOG

Glenwood

Project Title Eastern Wash UST Removal 4/12/91

Date	Event/Activity	Comments
4/12 12:30	Arrive Glenwood	
	Found contamination @ end of tank & chased	
	til soil smelled & tested clean.	
	Stockpile reads 2.6 on meter	
	Also excavated barrel	
	dripping sump on W side of bldg 2 YD^3. contamination extends under	
	gas house in under slab gravel base and approximately the top 8" of soil under the gravel	
	base	
	Total Excavation 35 YD^3	



1-1-GW041291
3.79'ϕ
x12
5 YD3
2-1-GW 041291
3-1-GW 041291
conc slab
19'5" x 10'0"
x 6"
Gashouse
Tank dripping oil dump into sump
N-2nd
Court st
1-1-GWPIC
041291
2-1-GWPIC
041291
excav hole 1
7.33 x 8.5 x 16.5
38 YD3
- 5 TANK
33
+ 2
35 YD
1-2-GW041291
from Gravel & 8" soil
under building slab
2-2-GW041291
bottom
Tree
5- 2GW 041891
4-2-GW 04129
under tree
4x3x4
2 Yd3
3-2-GW 041291
1-2-GWPIC
041291

PROJECT INDEX/LOG

Project Title Glenwood DNR-91-F[redacted]

Date	Event/Activity	Comments
4/18/91	Arrived on site at approximately 12:30 pm. No DNR personnel were on site.	509-369 3510
12:45	Back hoe operator began	Doug Daniels
1:30	No sand or backfill material had been ordered. Mike	Harry Smith
	Clumy went to try and find a local source	Marty Dotson
1:55	No local source had been found.	(People at Glenwood site to ask for when you call)
2:00	[redacted] Frank decides not to dig any further on bar oil hole until a solution to clean it up is come up with	
3:00	Backfilling is nearly complete NO other backfill material was found. A one to two foot depression exists on top of former UST site.	
3:30	Site is cleaned up [redacted]	

SOUND ANALYTICAL SERVICES, INC.
ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy. East
Tacoma, Washington 98424
(206) 922-2310 • FAX (206) 922-5047

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: Wa. State Dept Nat Resources
PROJECT NAME: W. Washington UST REMOVAL
CONTACT: FRANK RUSH
PHONE NO: 753-2093

ANALYSIS REQUESTED: (Circle, check box or write preferred method in box) OTHER:

SAMPLE ID #	DATE	TIME	PRES.	MATRIX	BTEX 8020	TPH 418.1	TPH Mod 8015	BTEX/8015 Combo Gasoline Only	Halogenated Volatiles EPA 601/8010	Aromatics EPA 602/8020	PAH EPA 625/8270	Purgeables (GC/MS) EPA 624/8240	BNA's EPA 625/8270	Organochlorine Pest., PCB's EPA 608/8080	Total Halogens EPA 9078	TCLP Extraction Metals	TCLP Extraction (ZHE) Volatile Organics	TCLP Extraction Semi-volatiles	TCLP Extraction Pesticides & Herbicides	Total Metals LEAD ICP GFAA 6010							
1. 1-1-FR041291	4-12-91	10130		SOIL	X		X													X							
2. 2-1-FR041291	4-12-91	10:30		SOIL	X		X													X							
3. 3-1-FR041291	4-12-91	10:30		SOIL	X		X													X							
4. 1-1-GW041291	4-12-91	14:30		SOIL	X		X													X							
5. 2-1-GW041291	4-12-91	14:30		SOIL	X		X													X							
6. 3-1-GW041291	4-12-91	14:30		SOIL	X		X													X							
7. 1-1-GWPIC041291	4-12-91	14:30		SOIL	X		X													X							
8. 2-1-GWPIC041291	4-12-91	14:30		SOIL	X		X													X							
9.																											
10.																											
11.																											
12.																											

RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: LeRoy A. McGuire	Signature:	Signature:
Printed Name: LeRoy A. McGuire	Printed Name:	Printed Name:
Firm: D.N.R. Eng.	Firm:	Firm:
Date/Time: 9:10 AM 4/15/91	Date/Time:	Date/Time:
RECEIVED BY:	**RECEIVED BY:**	**RECEIVED BY:**
Signature: S Giang	Signature:	Signature:
Printed Name: S GIANG	Printed Name:	Printed Name:
Firm: SAS	Firm:	Firm:
Date/Time: 4-15-91 9:10 AM	Date/Time:	Date/Time:

SPECIAL INSTRUCTIONS / COMMENTS:

48 HOUR GUARANTEED "RUSH" ALL SAMPLES THIS SHEET

SAMPLE 1-1-GWPIC041291 COMPOSITE
" 2-1-GWPIC041291 "

Page _____ of _____

SOUND ANALYTICAL SERVICES, INC.
ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy. East
Tacoma, Washington 98424
(206) 922-2310 • FAX (206) 922-5047

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: WA. STATE DEPT. NAT RESOURCES
PROJECT NAME: W. WASHINGTON UST REMOVAL
CONTACT: FRANK RUSH
PHONE NO: 753-2093

ANALYSIS REQUESTED: (Circle, check box or write preferred method in box) OTHER:

SAMPLE ID #	DATE	TIME	PRES.	MATRIX	BTEX	TPH 418.1	TPH Mod 8015	BTEX/8015 Combo Gasoline Only	Halogenated Volatiles EPA 601/8010	Aromatics EPA 602/8020	PAH EPA 625/8270	Purgeables (GC/MS) EPA 624/8240	BNA's EPA 625/8270	Organochlorine Pest., PCB's EPA 608/8080	Total Halogens EPA 9076	TCLP Extraction Metals	TCLP Extraction (ZHE) Volatile Organics	TCLP Extraction Semi-volatiles	TCLP Extraction Pesticides & Herbicides	Total Metals ICP GFAA							
1. 1-2-GW041291	4-12-91	14:30		SOIL		X																					
2. 2-2-GW041291	4-12-91	14:30		"		X																					
3. 3-2-GW041291	4-12-91	14:30		"		X																					
4. 4-2-GW041291	4-12-91	14:30		"		X																					
5. 1-2-GW PIC041291	4-12-91	14:30		"		X																					
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:
Signature:	Signature:	Signature:
Printed Name: LeRoy A. McGuire	Printed Name:	Printed Name:
Firm: DNR Engr.	Firm:	Firm:
Date/Time: 4/15/91 9:00 AM	Date/Time:	Date/Time:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature:	Signature:	Signature:
Printed Name: D. Gians	Printed Name:	Printed Name:
Firm: SAS	Firm:	Firm:
Date/Time: 4-15-91 9:10 AM	Date/Time:	Date/Time:

SPECIAL INSTRUCTIONS / COMMENTS:

SAMPLE 1-2-GW PIC041291 COMPOSITE

48 hour guaranteed "RUSH" ALL SAMPLES THIS SHEET

SOUNL ANALYTICAL SER . ICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 16, 1991

Report On: Analysis of Soil

Lab No.: 17042

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	RUSH 1	RUSH 2	RUSH 3	RUSH 4
Client Identification	1-1-FR041291	2-1-FR041291	3-1-FR041291	1-1-GW041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
Ethyl Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Xylenes	< 0.05	< 0.05	0.08	0.06
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	28.7	14.5	9.4	9.1

Note - BTEX and TPH 8015 results reported on an as received basis.

Continued . . . .

SOUNL ANALYTICAL SER.ICES, INC.

WA State Dept. of Natural Resources

Lab No. 17042
April 16, 1991

Lab Sample No.	RUSH 5	RUSH 6	RUSH 7	RUSH 8
Client Identification	2-1-GW041291	3-1-GW041291	1-1-GWPIC-041291	2-1-GWPIC-041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	0.21
Toluene	< 0.05	< 0.05	< 0.05	1.60
Ethyl Benzene	< 0.05	< 0.05	< 0.05	0.48
Xylenes	< 0.05	< 0.05	0.22	4.29
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	8.7	30.7	36.0	43.5

Note - BTEX and TPH 8015 results reported on an as received basis.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 15, 1991

Report On: Analysis of Soil

Lab No.: 17041

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, ppm by EPA Method 418.1
RUSH 1	1-2-GW041291	4,400
RUSH 2	2-2-GW041291	530
RUSH 3	3-2-GW041291	1,500
RUSH 4	4-2-GW041291	8,000
RUSH 5	1-2-GWPIC041291	23,000

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 17041 (2)
Date: April 15, 1991
Client: WA State Dept. of Natural Resources

Client ID: 2-2-GW041291
Matrix: Soil
Units: ppm

Compound	Sample(S)	Duplicate(D)	RPD*
Total Petroleum Hydrocarbons	530	460	14.1

*RPD = relative percent difference
= [(S - D) / ((S + D) / 2)] x 100

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Report To: WA State Dept. of Natural Resources

Date: April 15, 1991

Report On: Analysis of Soil

Lab No.: 17041

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, ppm by EPA Method 418.1
RUSH 1	1-2-GW041291	4,400
RUSH 2	2-2-GW041291	530
RUSH 3	3-2-GW041291	1,500
RUSH 4	4-2-GW041291	8,000
RUSH 5	1-2-GWPIC041291	23,000

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= [(S - D) / ((S + D) / 2)] x 100

...R HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK,
...OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

THIS SHIPPING ORDER

...st be legibly filled in, in ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No.

Carrier's No. № 324

AMALGAMATED SERVICES, INC.

(NAME OF CARRIER)

SCAC

Date 4-12-91

TO:	FROM:
Consignee Chempro	Shipper Washington State DNR
Street 20245-77th Ave S.	Street
Destination Kent WA Zip 98032	Origin Glenwood WA Zip

Route: ASI

Vehicle Number 3

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
100 gal		waste water N.O.S. w/ trace gasoline	Not regulated by DOT				
		CP # 46425					

Amalgamated Services, Inc
21318 - 103RD PL. S.E
KENT, WA 98031
854-6643

NAME
ADDRESS
SOLD BY | CASH | C.O.D. | CHARGE | ON ACCT. | MDSE. RETD. | PAID OUT
DATE 4/12/91

	QUAN.	DESCRIPTION	PRICE	AMOUNT
1		[illegible] truck		
2		[illegible]		
3		[illegible]		
4		of water Glenwood		
5	2.5	hrs on site		
6		[illegible]		
7		100 gallons		
8		chempro [illegible]		
9		DT [illegible]		
10	1/2	Day [illegible]		
11				
12				

CUSTOMER'S ORDER NO.

REC'D BY

KEEP THIS SLIP FOR REFERENCE

5L528/01528 REDIFORM

3359

Glenwood

Rem... Add... City...

NOTE...

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

FREIGHT CHARGES
PREPAID ☒ COLLECT ☐

...ept as noted (contents and ...ict as meaning any person ... carrier on the route to said ... in all or any said property, ...that every service to be performed hereunder shall be subject ... Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and ... ...reed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Per

PLACARDS REQUIRED

SPECIAL INSTRUCTIONS:

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVERS SIGNATURE:

SHIPPER: [signature]	CARRIER: AMALGAMATED SERVICES, INC.
PER:	PER: [signature]
DATE:	DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: (206) 854-6643

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

CONTAINS HAZARDOUS MATERIALS

Shipper's No.

Carrier

Carrier's No. 924

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading

at GLENWOOD WA 4-12 1991 from WASHINGTON STATE DNR

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to GENERAL METALS

(Mail or street address of consignee—For purposes of notification only.)

Destination TACOMA WA State ____ Zip Code ____ County ____

Delivery Address ★ ____

(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereof.)

Route ~~[illegible]~~ ERS

Delivering Carrier ERS Car or Vehicle Initials ____ No. ____

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
1	SCRAP GAS TANK # 924			
	TANK TITLE RELEASED TO ERS			
	[illegible]			
	[illegible] WAD 000 211 531			
	[signature] 4-12-91			

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here "To be Prepaid."

Received $ ____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per ____

(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

† [illegible] boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Uniform Freight Classification."

†Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

Shipper, Per [signature] Agent, Per [signature]

Permanent post-office address of shipper.

REDIFORM® 6S695

POLY PAK (50 SETS) 6P695

carbonless

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: P & R.

Owners Address: _____ (Street) _____ (P.O. Box)

_____ (City) _____ (State) _____ (ZIP-Code)

Telephone: (206) 753-2093 (Frank Rush)

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood Work Center

Site Address: _____ (Street) _____ (County)

Glenwood (City) WA. (State) _____ (ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: Tecon Inc. License Number: S001692

Address: P.O. Box 112137. (Street)

Tacoma (City) WA (State) 98411-2137 (P.O. Box / ZIP-Code)

Telephone: (206) 581-9934

Licensed Supervisor: Michael Curry Decommissioning License Number: W000354

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): # 1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Date of last use:
5. Last substance stored: Unleaded
6. Date of closure/change-in-service: 4-2-91
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance:
9. If change-in-service, indicate new substance stored in tank:
10. Local permit(s) (if any) obtained from: Demo permit County

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes [X] No [ ]

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	MRC		
2. Has all product piping been capped or removed?	MRC		
3. Have all non-product lines been capped or removed?	MRC		
4. Have all liquid and accumulated sludges been removed from the tank?	MRC		
5. Has the tank been properly purged or inerted?	MRC		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	MRC		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	MRC		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	MRC		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	MRC		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

7-9-91 — Date

Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

7-9-91 — Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

7-16-91 — Date

Signature of Tank Owner or Authorized Representative

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

DNR Copy Eastern WA

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: DNR.

Owners Address: _____ (Street) _____ (P.O. Box)

_____ (City) _____ (State) _____ (ZIP-Code)

Telephone: 206 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood

Site Address: _____ (Street) _____ (County)

Glenwood (City) WA (State) _____ (ZIP-Code)

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: Michael Curl

Address: P.O. Box 112137 (Street)

Tacoma (City) WA (State) 98411 (ZIP-Code) (P.O. Box)

Telephone: (206) 537-4934

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): 1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Last substance stored: unleaded

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination

_____ Investigate suspected release due to off-site environmental contamination

_____ Extend temporary closure of UST system for more than 12 months

_____ UST system undergoing change-in-service

_____ UST system permanently closed-in-place

X UST system permanently closed with tank removed

_____ Required by Ecology or delegated agency for UST system closed before December 22, 1988

_____ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	MRC	
2. Has a release from the UST system been confirmed? *NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.*		MRC
3. Are the results of the site check/site assessment enclosed with this checklist? *NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.*	MRC	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

4-12-91
Date

Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

6-3-91
Date

Michele L. Britton
Signature of Tank Owner or Authorized Representative

OCT 3 - 1996
WOO

WASHINGTON STATE DEPARTMENT OF
Natural Resources

JENNIFER M. BELCHER
Commissioner of Public Lands
KALEEN COTTINGHAM
Supervisor

October 3, 1996

Robert Cutler
U.S. Environmentyal Protection Agency
c/o Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

Re: Glenwood Landfarm

Dear Mr. Cutler:

The following documents were found regarding the landfarm at Glenwood site:

1. Tank removal field notes on April, 12, 1991. According to the field notes, 35 cubic yard of contaminated soil were excavated due to UST release. Based on the analytical results, all samples from the excavation are below the cleanup level and in accordance with Model Toxic Cleanup Act (MTCA) (refer to Fig. 1 for samples location and table 1 for anlytical results).

2. Underground storage tank documents include:
-Permanent Closure/Change-In-Service Checklist
-Site Check/Site Assessment Checklist
-Tank and tank's contents disposal at Amalgamated Services.

3. Analytical report from Sound Analytical Services, Inc., lab # 17042 dated April 16, 1991 for UST excavation and stockpiled soil.

Table 1: Analytical result for UST removal

Sample #	Benzene mg/kg	Toluene mg/kg	E. Benzene mg/kg	Xylenes mg/kg	TPH ppm	Total Lead mg/kg
1-1GW041291	<0.05	<0.05	<0.05	0.06	<10	9.1
2-1GW041291	<0.05	<0.05	<0.05	<0.05	<10	8.7
3-1GW041291	<0.05	<0.05	<0.05	<0.05	<10	30.7
1-1GWPIC041291	<0.05	<0.05	<0.05	0.22	<10	36.0
2-1GWPIC041291	0.21	1.60	0.48	4.29	<10	43.5
1-2GW041291	NA	NA	NA	NA	4,4000	NA
2-2GW041291	NA	NA	NA	NA	530	NA
3-2GW041291	NA	NA	NA	NA	1,500	NA
4-2GW041291	NA	NA	NA	NA	8,000	NA
1-2GWPIC041291	NA	NA	NA	NA	23,000	NA

4. A draft memo from Opeyemi Dehinbo, Washington State Department of Natural Resources (DNR) to Robert Cutler, U.S. EPA on January 6, 1993.

5. A memo from Opeyemi Dehinbo to Gary Bickett, SW Wash. Health District on January 27, 1993. This memo proposing the transfer of stockpiled soil from Glenwood work center to a rockpit 4.5 miles southeast from the originated site.

6. Analytical report from Sound Analytical Services, Inc., lab # 30797 dated March 19, 1993 (refer to Fig. 2 for samples location and Table 2 for analytical results). Soil was confirmed to be under MTCA cleanup level.

Table 2: Contaminated stockpiled soil analytical results

Sample #	GASOLINE	Benzene mg/kg	Toluene mg/kg	E. Benzene mg/kg	Xylenes mg/kg
A1	ND	ND	ND	ND	ND
A2	3.6	ND	ND	ND	ND
A3	ND	ND	ND	ND	ND
A4	ND	ND	ND	ND	ND
B1	ND	ND	ND	ND	ND
B2	ND	ND	ND	ND	ND
B3	ND	ND	ND	ND	ND
B4	ND	ND	ND	ND	ND
B5	ND	ND	ND	ND	ND
C1	1.7	ND	ND	ND	ND
C2	45	ND	ND	ND	ND
C3	2.2	ND	ND	ND	ND

Based on the contractor report, 100 cubic yards of soil were contaminated with heavy oil hydrocarbons, and 1,020 cubic yards of soil were contaminated with gasoline. The source of gasoline in the soil is a mystery to DNR.

7. Site Assessment Limited Site Characterization Interim Report for Soil Remediation by E. P. Johnson Construction, Inc., January 1993.

In summary, one gasoline tank has been removed and 35 c.y. of contaminated soil was excavated in April 1991. Additional heavy oil hydrocarbons were observed on site due to daily activities on site.

On July 1992, E. P. Johnson Construction was hired by DNR to remove contaminated soil and treat the site. Contractor excavated and stockpiled 100 cubic yards of soil contaminated with heavy oil hydrocarbons, and 1,020 cubic yards of gasoline contaminated soil not associated with the UST removal. The source of the gasoline contamination was not discovered and remains a mystery. The excavated material was stockedpiled on site and a new imported soil was placed in the excavted area.

On March 1993, Contaminated soil was tested (see 1993 analytical report by Sound Lab) for the presence of gasoline. Based on analytical results, no contamination was found in the soil. Soil was transported to a nearby area.

Ayman Oubari

Environmental Engineer
Washington State Department of Natural Resources
Engineering Division

October 3, 1996

Robert Cutler
U.S. Environmentyal Protection Agency
c/o Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

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3-1GW041291	<0.05	<0.05	<0.05	<0.05	<10	30.7
1-1GWPIC041291	<0.05	<0.05	<0.05	0.22	<10	36.0
2-1GWPIC041291	0.21	1.60	0.48	4.29	<10	43.5
1-2GW041291	NA	NA	NA	NA	4,4000	NA
2-2GW041291	NA	NA	NA	NA	530	NA
3-2GW041291	NA	NA	NA	NA	1,500	NA
4-2GW041291	NA	NA	NA	NA	8,000	NA
1-2GWPIC041291	NA	NA	NA	NA	23,000	NA

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B2	ND	ND	ND	ND	ND
B3	ND	ND	ND	ND	ND
B4	ND	ND	ND	ND	ND
B5	ND	ND	ND	ND	ND
C1	1.7	ND	ND	ND	ND
C2	45	ND	ND	ND	ND
C3	2.2	ND	ND	ND	ND

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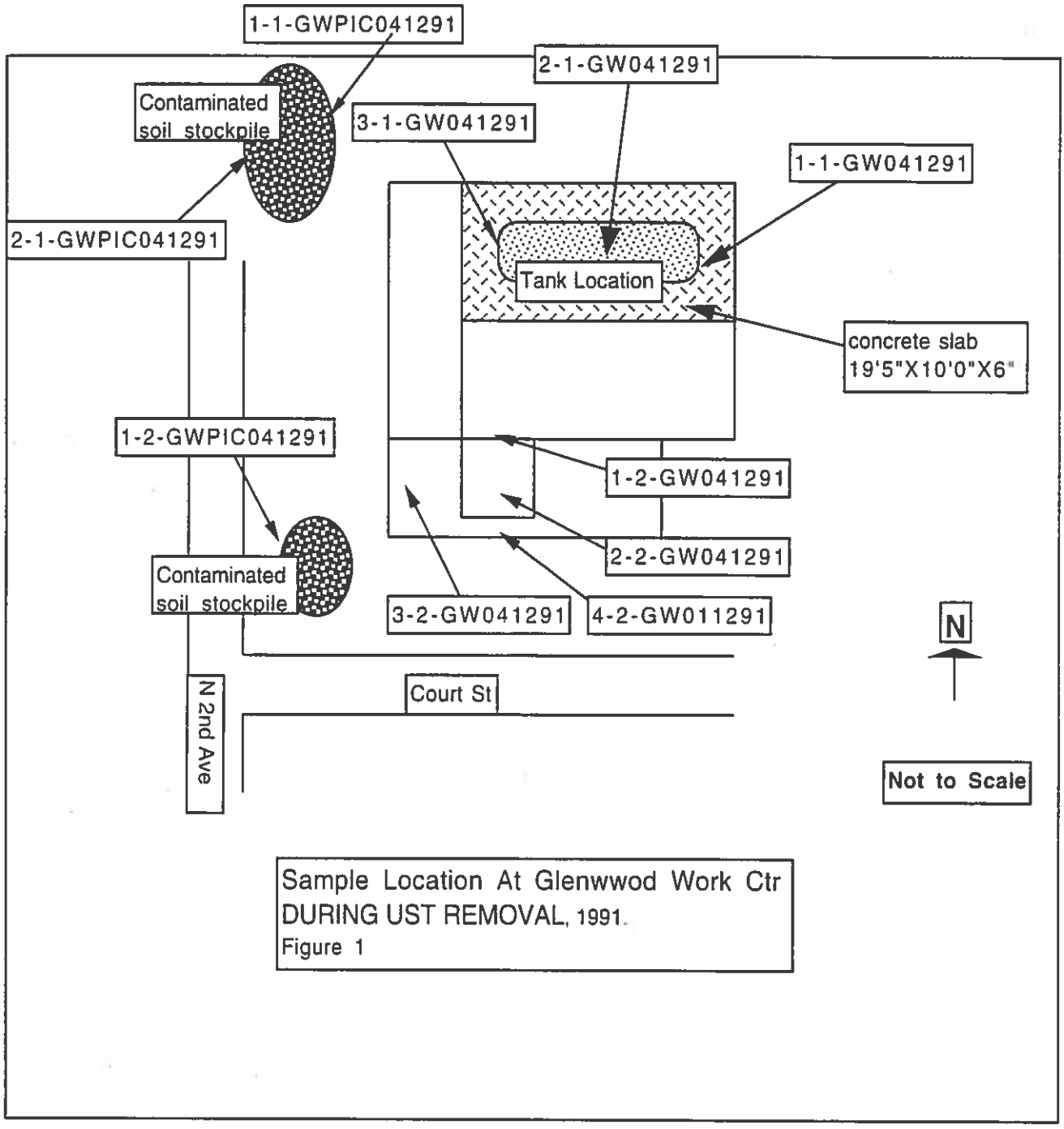


Sample Location At Glenwwod Work Ctr
DURING UST REMOVAL, 1991.
Figure 1

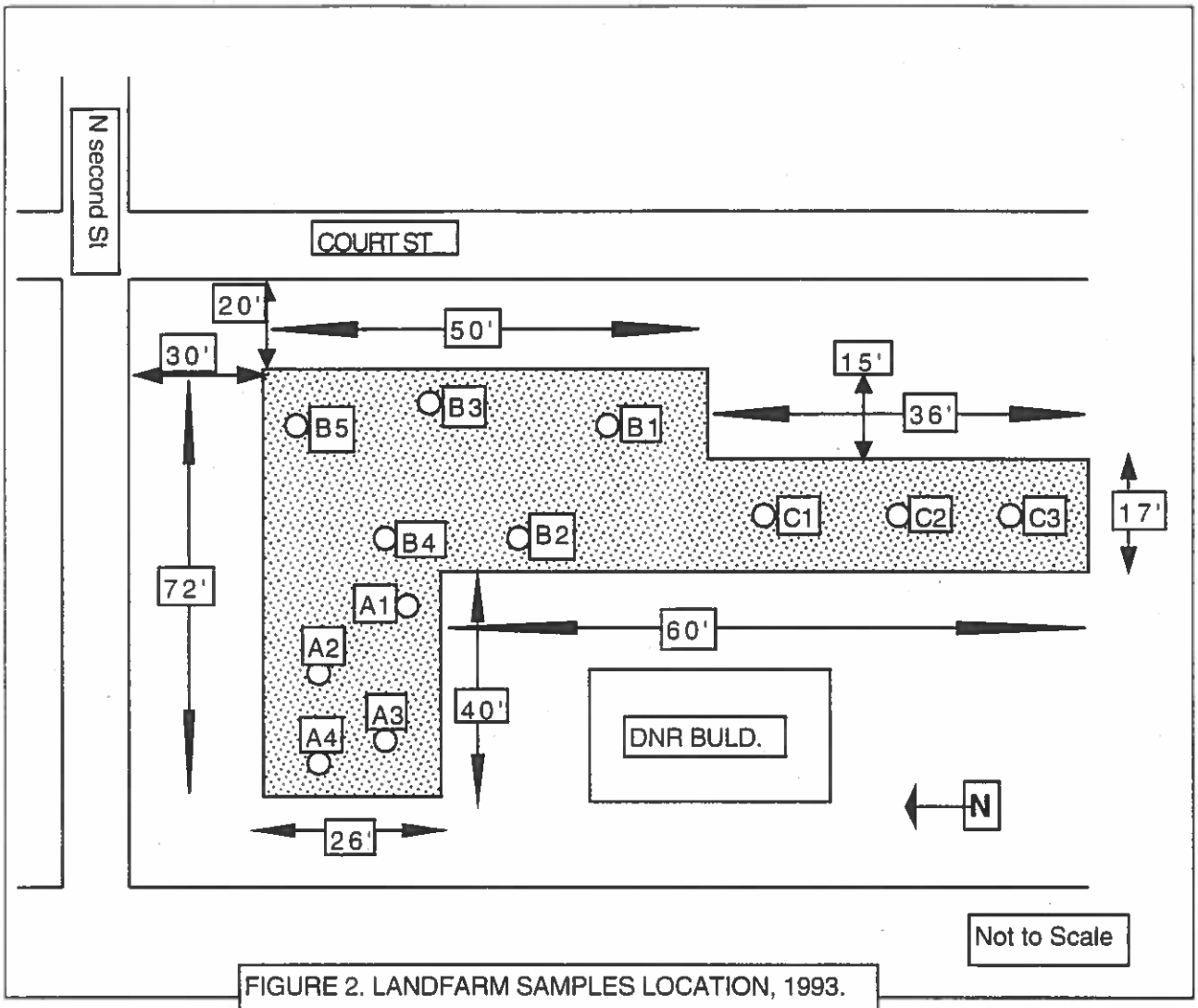


FIGURE 2. LANDFARM SAMPLES LOCATION, 1993.
GLENWOOD WORK CTR.

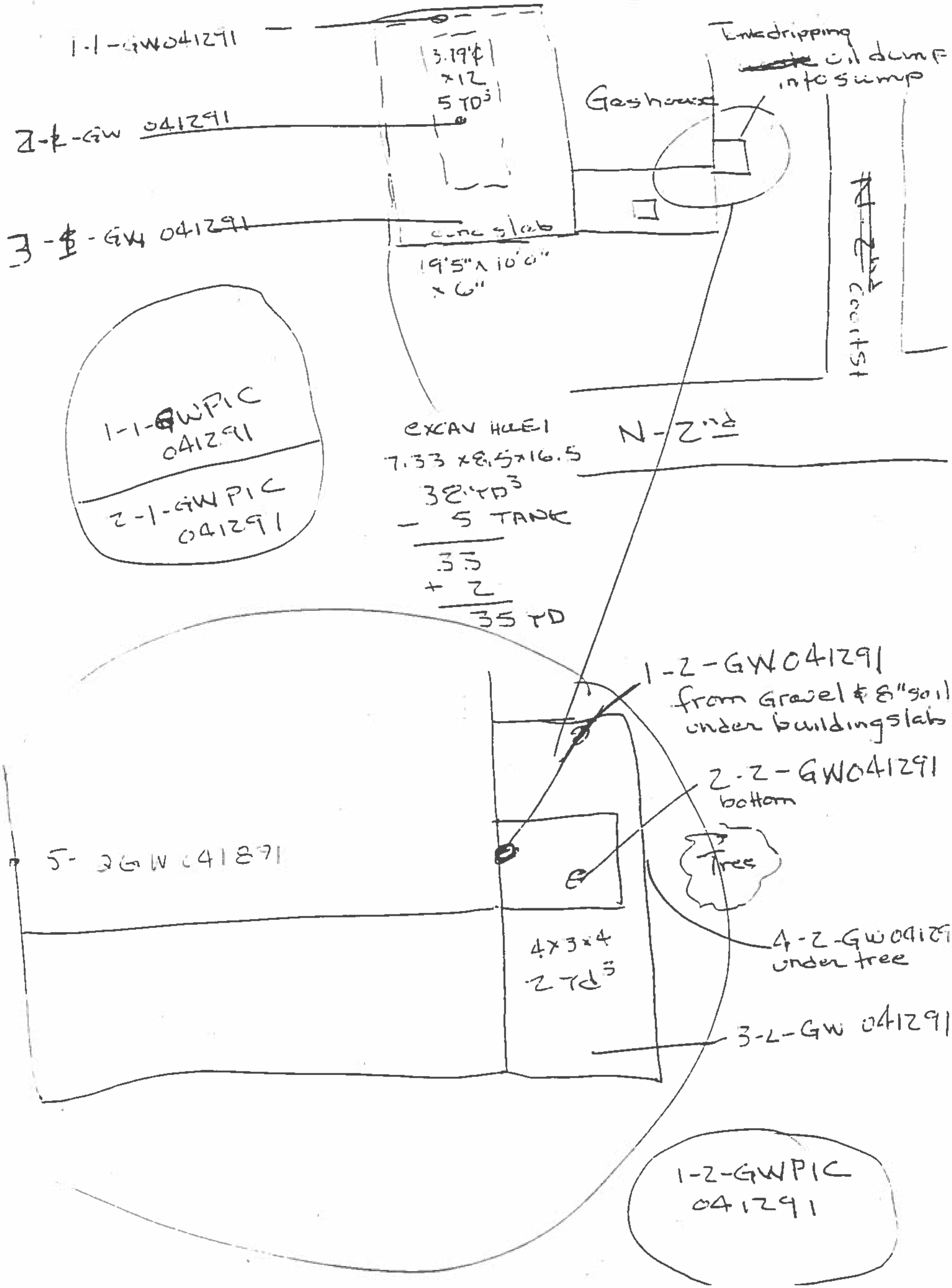
1
Tank Removal Field Notes

PROJECT INDEX/LOG

Glenwood

Project Title Eastern Wash UST Removal 4/12/91

Date	Event/Activity	Comments
4/12 12.3i	Arrive Glenwood	
	Found contamination @ end of tank & chased	
	til soil smelled & tested clean.	
	Stockpile reads 2.6 on meter	
	Also excavated barrel	
	dripping sump on W side	
	of bldg 2 yd^3 - contamination extends under	
	gas house in under slab gravel base and	
	approximately the top 8" of soil under the gravel	
	base	
	Total Excavation 35 yd^3	


1-1-GW041291
3.19'¢
x12
5 YD³
2-1-GW 041291
3-1-GW 041291
conc slab
19'5" x 10'0"
x 6"
Gashouse
Tank dripping oil dump into sump
2nd
Court St
1-1-GWPIC 041291
2-1-GWPIC 041291
EXCAV HOLE 1
7.33 x 8.5 x 16.5
38 YD³
- 5 TANK
33
+ 2
35 YD
N-2nd
1-2-GW041291
from Gravel & 8" soil under building slab
2-2-GW041291
bottom
Tree
5-2GW 041891
4-2-GW041291
under tree
4x3x4
2 Yd³
3-2-GW 041291
1-2-GWPIC 041291

PROJECT INDEX/LOG

Project Title Glenwood DNR-91-F[redacted]

Date	Event/Activity	Comments
4/18/91	Arrived on site at approximately 12:30 pm. No DNR personnel were on site.	
12:45	Backhoe excavator began	507-264 3510
1:30	No sand or backfill material had been ordered. Mike	Doug Daniels Harry Smith [illegible]
	Chinny went to try and find a local source	(People at Glenwood site to ask for when you call)
1:55	No local source had been found.	
2:00	[redacted] Frank decides not to dig any further on bad oil hole until a solution to clean it up is come up with	
3:00	Backfilling is nearly complete. No other backfill material was found. A one to two foot depression exists on top of former UST site.	
3:30	Site is cleaned up[redacted]	

2

UST Documents

FO[illegible]P IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEA[illegible] FIRE [illegible]XPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NI[illegible]

THIS SHIPPING ORDER

[illegible]st be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No. ______

Carrier's No. № 324

AMALGAMATED SERVICES, INC.

(NAME OF CARRIER)

SCAC ______ Date 4-12-91

TO:	FROM:
Consignee Chempro	Shipper Washington State DNR
Street 20245-77th Ave S.	Street
Destination Kent WA Zip 98032	Origin Elmwood WA Zip

Route: ASI

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
100 GAL		Waste water mix w/ trace gasoline	Not regulated by DOT				
		CP #46425					

Amalgamated Services, Inc
21318 - 103RD PL. S.E.
KENT, WA 98031
854-6643

NAME
ADDRESS
DATE 4/12/91

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE RETD	PAID OUT

QUAN.	DESCRIPTION	PRICE	AMOUNT
1	[illegible]		
2	[illegible]		
3	[illegible]		
4	[illegible]		
5	[illegible]		
6	[illegible]		
7	[illegible]		
8	[illegible]		
9	[illegible]		
10	[illegible]		
11			
12			

CUSTOMER'S ORDER NO.

REC'D BY

KEEP THIS SLIP FOR REFERENCE

5L528/01528 REDIFORM

359

Glenwood

Rem[illegible]
Add[illegible]
City

NOTE

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

FREIGHT CHARGES
PREPAID ☒ COLLECT ☐

[illegible]ept as noted (contents and [illegible]ct as meaning any person [illegible] carrier on the route to said [illegible] in all or any said property, [illegible] that every service to be performed hereunder [illegible] Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said [illegible] accepted for himself and his assigns [illegible]reed to by the shipper and

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Per

PLACARDS REQUIRED

SPECIAL INSTRUCTIONS

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER

DRIVERS SIGNATURE:

SHIPPER: [signature]

PER:

DATE:

CARRIER:

PER: [signature]

DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: (206) 872-8642

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

CONTAINS HAZARDOUS MATERIALS

Shipper's No.

Carrier

Carrier's No. 924

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading

at GLEN [illegible] WA 4-12 19 91 from WASHINGTON STATE DNR

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to GLEN [illegible] METALS

(Mail or street address of consignee—for purposes of notification only.)

Destination [illegible] State _____ Zip Code _____ County _____

Delivery Address ★ _____

(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereof.)

Route 432 E J S

Delivering Carrier E R S Car or Vehicle Initials _____ No. _____

No. of Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
1	LOAD [illegible] TANK # 924			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____

(The signature here acknowledges only the amount prepaid.)

Charges Advanced

$ _____

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

[illegible] The [illegible] boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Uniform Freight Classification.

[illegible] Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission

_____ Shipper, Per _____ [illegible] Agent, Per [illegible]

Permanent post-office address of shipper _____

REDIFORM • 65695 carbonless

POLY PAK (50 SETS) 6P695

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173-360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: DNR.

Owners Address: _____ (Street) _____ (P.O. Box)

_____ (City) _____ (State) _____ (ZIP-Code)

Telephone: (206) 753-2093 (Frank Rush)

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood Work Center

Site Address: _____ (Street) _____ (County)

Glenwood (City) WA. (State) _____ (ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: Tecon Inc. License Number: S001692

Address: P.O. Box 112137. (Street)

Tacoma (City) WA (State) 98411-2137 (P.O. Box / ZIP-Code)

Telephone: (206) 581-9934

Licensed Supervisor: Michael Curry Decommissioning License Number: W000354

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): #1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Date of last use:
5. Last substance stored: Unleaded
6. Date of closure/change-in-service: 4-12-91
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance:
9. If change-in-service, indicate new substance stored in tank:
10. Local permit(s) (if any) obtained from: Demo Permit County

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes [X] No [ ]

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	MRC		
2. Has all product piping been capped or removed?	MRC		
3. Have all non-product lines been capped or removed?	MRC		
4. Have all liquid and accumulated sludges been removed from the tank?	MRC		
5. Has the tank been properly purged or inerted?	MRC		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	MRC		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	MRC		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	MRC		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	MRC		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

7-9-91 — Date

Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

7-9-91 — Date

Signature of Licensed Service Provider (Firm) Owner or Authorized Representative

7-16-91 — Date

Signature of Tank Owner or Authorized Representative

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

DNR Copy Eastern WA

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: DNR

Owners Address: _____ (Street) _____ (P.O. Box)

_____ (City) _____ (State) _____ (ZIP-Code)

Telephone: 206 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Elbow Lake

Site Address: _____ (Street) _____ (County)

Elbow Lake WA _____ (City) _____ (State) _____ (ZIP-Code)

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: Michael Curet

Address: PO Box 1121 (Street)

Tonasket WA 98855 (City) (State) (P.O. Box) (ZIP-Code)

Telephone: (509) 486-2132

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): 1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Last substance stored: Unleaded

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination

_____ Investigate suspected release due to off-site environmental contamination

_____ Extend temporary closure of UST system for more than 12 months

_____ UST system undergoing change-in-service

_____ UST system permanently closed-in-place

X UST system permanently closed with tank removed

_____ Required by Ecology or delegated agency for UST system closed before December 22, 1988

_____ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	MRC	
2. Has a release from the UST system been confirmed? *NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.*		MRC
3. Are the results of the site check/site assessment enclosed with this checklist? *NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.*	MRC	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

4-12-91
Date

Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

6-3-91
Date

Michele K Britton
Signature of Tank Owner or Authorized Representative

SOUNL ANALYTICAL SER . ICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 16, 1991

Report On: Analysis of Soil

Lab No.: 17042

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	RUSH 1	RUSH 2	RUSH 3	RUSH 4
Client Identification	1-1-FR041291	2-1-FR041291	3-1-FR041291	1-1-GW041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
Ethyl Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Xylenes	< 0.05	< 0.05	0.08	0.06
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	28.7	14.5	9.4	9.1

Note - BTEX and TPH 8015 results reported on an as received basis.

Continued . . . .

SOUNL ANALYTICAL SER.ICES, INC.

WA State Dept. of Natural Resources
Page 2 of 2
Lab No. 17042
April 16, 1991

Lab Sample No.	RUSH 5	RUSH 6	RUSH 7	RUSH 8
Client Identification	2-1-GW041291	3-1-GW041291	1-1-GWPIC-041291	2-1-GWPIC-041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	0.21
Toluene	< 0.05	< 0.05	< 0.05	1.60
Ethyl Benzene	< 0.05	< 0.05	< 0.05	0.48
Xylenes	< 0.05	< 0.05	0.22	4.29
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	8.7	30.7	36.0	43.5

Note - BTEX and TPH 8015 results reported on an as received basis.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 15, 1991

Report On: Analysis of Soil

Lab No.: 17041

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, ppm by EPA Method 418.1
RUSH 1	1-2-GW041291	4,400
RUSH 2	2-2-GW041291	530
RUSH 3	3-2-GW041291	1,500
RUSH 4	4-2-GW041291	8,000
RUSH 5	1-2-GWPIC041291	23,000

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUNL ANALYTICAL SER.ICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 17041 (2)
Date: April 15, 1991
Client: WA State Dept. of Natural Resources

Client ID: 2-2-GW041291
Matrix: Soil
Units: ppm

Compound	Sample(S)	Duplicate(D)	RPD*
Total Petroleum Hydrocarbons	530	460	14.1

*RPD = relative percent difference
= [(S - D) / ((S + D) / 2)] x 100

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 15, 1991

Report On: Analysis of Soil

Lab No.: 17041

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, ppm by EPA Method 418.1
RUSH 1	1-2-GW041291	4,400
RUSH 2	2-2-GW041291	530
RUSH 3	3-2-GW041291	1,500
RUSH 4	4-2-GW041291	8,000
RUSH 5	1-2-GWPIC041291	23,000

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 17041 (2)
Date: April 15, 1991
Client: WA State Dept. of Natural Resources

Client ID: 2-2-GW041291
Matrix: Soil
Units: ppm

Compound	Sample(S)	Duplicate(D)	RPD*
Total Petroleum Hydrocarbons	530	460	14.1

*RPD = relative percent difference
= [(S - D) / ((S + D) / 2)] x 100

SOUND ANALYTICAL SERVICES, INC.
ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy. East
Tacoma, Washington 98424
(206) 922-2310 • FAX (206) 922-5047

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: WA. STATE DEPT. NAT RESOURCES
PROJECT NAME: W. WASHINGTON UST REMOVAL
CONTACT: FRANK RUSH
PHONE NO: 753-2093

SAMPLE ID #	DATE	TIME	PRES.	MATRIX	BTEX	TPH 418.1	TPH Mod 8015	BTEX/8015 Combo Gasoline Only	Halogenated Volatiles EPA 601/8010	Aromatics EPA 602/8020	PAH EPA 625/8270	Purgeables (GC/MS) EPA 624/8240	BNA's EPA 625/8270	Organochlorine Pest. PCB's EPA 608/8080	Total Halogens EPA 9076	TCLP Extraction Metals	TCLP Extraction (ZHE) Volatile Organics	TCLP Extraction Semi-volatiles	TCLP Extraction Pesticides & Herbicides	Total Metals ICP GFAA	OTHER
1 1-2-GW041291	4.12.91	14:30		Soil		X															
2 2-2-GW041291	4.12.91	14:30		"		X															
3 3-2-GW041291	4.12.91	14:30		"		X															
4 4-2-GW041291	4.12.91	14:30		"		X															
5 1-2-GW PICO41291	4.12.91	14:30		"		X															
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ANALYSIS REQUESTED (Circle, check box or write preferred method in box)

RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:
Signature:	Signature:	Signature:
Printed Name: Leroy A. McClure	Printed Name:	Printed Name:
Firm: DNR Engr.	Firm:	Firm:
Date/Time: 4/15/91 9:45 AM	Date/Time:	Date/Time:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature:	Signature:	Signature:
Printed Name: D. Giard	Printed Name:	Printed Name:
Firm: SAS	Firm:	Firm:
Date/Time: 4-15-91 9:10 AM	Date/Time:	Date/Time:

SPECIAL INSTRUCTIONS / COMMENTS:

SAMPLE 1-2-GW PICO41291 COMPOSITE

48 hour guaranteed "RUSH" ALL SAMPLES THIS SHEET

Memo-Opeyemi Dehinbo to Robert Cutler

WASHINGTON STATE DEPARTMENT OF
Natural Resources

BRIAN BOYLE
Commissioner of Public Lands

Engineering Division
P.O. Box 47030
Olympia, WA 98504-7030

January 6, 1993

Robert Cutler
US E.P.A
WA Operations Office
c/o WA D.O.E
P.O.Box 47600
Olympia, WA 98504.

Re: **Glenwood Workstation UST Removal**

Dear Robert:

This is a follow up on your telephone enquiries and our discussion of 01-06-93.
As I earlier explained. The Glenwood workstation Underground Storage Tank removal was carried out under Department of Natural Resources(DNR) Project # 91-F538 (Eastern Washington UST Removal).

The tank decommissioning was done by Trecon. Permanent Closure/ Change-In-Service Checklist and Site Check/Site Assessment Checklist was completed and sent to DOE as required.

There was no indication of release. based on the sampling done during decommissioning, laboratory analysis supports this. Although heavy oil contamination was encountered at a different location due to past activities. This discovery was not taken care of under this contract because it was not UST related. nevertheless a new project was set-up to excavate and remediate the heavy oil contaminated soil.

During the excavation of the heavy oil contaminated soil. Large amount of Petroleum Contaminated Soil was encountered. excavated and stored on site.under Project # DNR 92-F12.

DNR is currently training personnel on 40 hr. Health and Safety (HAZWOPER)for in-house remediation by landfarming the soil and

Aeration by rototilling either on site(Space permitting) or transporting to another DNR site for the same purpose.

Attached, are Field notes of the UST removal, Laboratory analysis chain of custody,Laboratory results, Tank disposal receipts and initial site assessment checklist.

Please contact me at (206) 902-1162, should you have any more questions.

Sincerely,

Opeyemi Dehinbo
Environmental Engineer
Engineering Division
P.O.Box 47030
Olympia, WA 98503-7030.

CC Tony Ifie
Jim Hurst

5

Memo-Opeyemi Dehinbo to Gary Bickett

WASHINGTON STATE DEPARTMENT OF
Natural Resources

Jennifer M. Belc
[redacted]
Commissioner of Public Lands

Engineering Division
P.O. Box 47030
Olympia, WA 98504-7030

01-27-93

Gary Bickett
Environmental Division
SW Wash. Health Dist
P.O.Box 1870
Vancouver, WA 98668.

Re: **Petroleum Contaminated Soil (PCS)Transfer**

Dear Gary:

This is to confirm our telephone discussion of 01/27/93.in which you agreed to Department of Natural Resources (DNR) request to perform PCS transfer without need for transportation permit. The transfer will be from our Glenwood work center to another DNR site within Klickitat county, which is used as a rockpit.This is for purpose of landfarming of the PCS at the rockpit.

The PCS is currently stockpiled at the Glenwood workcenter located 10 miles NE of Husum, in klickitat county. Please refer to the next page for transfer activities.

The road to this site is paved, except for the last half mile which is crushed rock. This is a low density area in population,with the closest farmhouse being 2miles away.

All personnel that will be involved with this operation will be DNR employees, and are 40hr health and safety trained.

If you need additional information, Please contact me at (206)902-1162. Thank you for your assistance.

Sincerely,

Opeyemi Dehinbo
Environmental Engineer
Engineering Division

The transfer activity will be as follows:.

Current location:	Glenwood workcenter
New location:	Glenwood rockpit(4.5 miles SE of workcenter)
Transfer means:	Land transportation(DNR owned Dump trucks)
County of transfer:	Klickitat county
Quantity:	1060cy
Medium:	Soil

cc: Tony Ifie, Engineering Division
Steve Brown, SE Region

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: March 19, 1993

Report On: Analysis of Soil

Lab No.: 30797

IDENTIFICATION:
Samples received on 03-17-93
Project: Glenwood

ANALYSIS:

Lab Sample No. 30797-1 Client ID: A1

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-17-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	73

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-2 Client ID: A2

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-17-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	3.6	1.0	X1
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

X1 = Aged Gasoline or Diesel

SURROGATE RECOVERY, %

Trifluorotoluene	69

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-3 Client ID: A3

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-17-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	74

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-4 Client ID: A4

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-17-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7-C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	72

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-5 Client ID: B1

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-19-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	58

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-6 Client ID: B2

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-17-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	68

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-7 Client ID: B3

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-17-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	81

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-8 Client ID: B4

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-18-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	66

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-9 Client ID: B5

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-18-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	73

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-10 Client ID: C1

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-18-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	1.7	1.0	X1
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

X1 = Aged Gasoline

SURROGATE RECOVERY, %

Trifluorotoluene	64

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-11 Client ID: C2

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-18-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	45	1.0	X1
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

X1 = Aged Gasoline

SURROGATE RECOVERY, %

Trifluorotoluene	74

PQL - Practical Quantitation Limit
ND - Not Detected

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Project: Glenwood

Lab No. 30797
March 19, 1993

Lab Sample No. 30797-12 Client ID: C3

WTPH-G with BTEX by Method 8020
Date Extracted: 3-17-93
Date Analyzed: 3-18-93

Parameter	Concentration, mg/kg	PQL	Flag
Gasoline (C7 - C12)	2.2	1.0	X1
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

X1 = Aged Gasoline

SURROGATE RECOVERY, %

Trifluorotoluene	62

PQL - Practical Quantitation Limit
ND - Not Detected

SOUND ANALYTICAL SERVICES

DEAN A. STROM

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

WTPH-G with BTEX
by EPA SW-846 Method 8020

Client: WA State Dept. of Natural Resources
Lab No: 30797qc
Matrix: Soil
Units: mg/kg
Date: March 19, 1993

METHOD BLANK

Blank No: 93031704

Parameter	Result	PQL	Flag
Gasoline (C_7-C_{12})	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	
SURROGATE RECOVERY,%			
Trifluorotoluene	97		

DUPLICATE

Dup No. 30797-10

Parameter	Sample (S)	Duplicate (D)	RPD	FLAG
Gasoline (C_7-C_{12})	1.7	5.0	X4a	X1
Benzene	ND	ND	0.0	
Toluene	ND	ND	0.0	
Ethyl Benzene	ND	ND	0.0	
Xylenes	ND	ND	0.0	
SURROGATE RECOVERY,%				
Trifluorotoluene	64	77		

RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2] x 100

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

DATA QUALIFIER FLAGS

ND: Indicates that the analyte was analyzed for but was not detected. The associated numerical value is the practical quantitation limit, corrected for sample dilution.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

C: The identification of this analyte was confirmed by GC/MS.

B1: This analyte was also detected in the associated method blank. The reported sample results have been adjusted for moisture, final exract volume, and/or dilutions performed during extract preparation. The analyte concentration was evaluated prior to sample preparation adjustments, and was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was also detected in the associated method blank. However, the analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

E: The concentration of this analyte exceeded the instrument calibration range.

D: The reported result for this analyte is calculated based on a secondary dilution factor.

A: This TIC is a suspected aldol-condensation product.

M: Quantitation Limits are elevated due to matrix interferences.

S: The calibration quality control criteria for this compound were not met. The reported concentration should be considered an estimated quantity.

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be aged gasoline or diesel.

X2: Contaminant does not appear to be "typical" product. Further testing is suggested for identification.

X3: Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.

X4: RPD for duplicates outside QC limits. Sample was re-analyzed with similar results. Sample matrix is nonhomogeneous.

X4a: RPD for duplicates outside QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike was diluted out during analysis.

X6: Recovery of matrix spike outside QC limits. Sample was re-analyzed with similar results.

X7: Recovery of matrix spike outside QC limits. Matrix interference is indicated by blank spike recovery data.

X7a: RPD value for MS/MSD outside QC limits due to high contaminant levels.

X8: Surrogate was diluted out during analysis.

X9: Surrogate recovery outside QC limits due to matrix composition.

X10: Surrogate recovery outside QC limits due to high contaminant levels.

Site Assessment Report

SITE ASSESSMENT
LIMITED SITE CHARACTERIZATION
INTERIM REPORT

for

SOIL REMEDIATION

DEPARTMENT OF NATURAL RESOURCES
GLENWOOD, WASHINGTON

Prepared for:

Mr. Opeyemi Dehinbo, Project Manager
Department of Natural Resources
Engineering Division
1102 S. Quince
Olympia, Washington 98504

Prepared By:

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January 1993

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Purpose:

This report describes the findings to date, actions taken, and the current status of petroleum contaminated soil associated with a site assessment and limited site characterization performed for the Washington State Department of Natural Resources (DNR) in Glenwood, Washington. The facility is located at the Southeast Region Work Center, Corner of N 2nd and Court Streets, Glenwood, Washington 98619. The geographical location of the property is the SE 1/4 of the NW 1/4 of Section 10, T 6 N, R 12 E.

The data and documentation contained herein are in accordance with regulatory requirements set forth by the United States Environmental Protection Agency (EPA) and the State of Washington, Department of Ecology (DOE).

The DOE requires preservation of this report for 5 years. We recommend that you keep the report for at least 5 years or until the property is sold. The DOE also requires that a(n) Notice of Intent to Close, Installation, Site Assessment, and Permanent Closure checklist be completed if applicable to site activities. The applicable checklists have been completed and are attached as Appendix B.

1.2 Scope of Work:

The DNR contracted E.P. Johnson Construction, Inc., to provide services for characterization and remediation of contaminated soil at the Work Center in Glenwood, Washington. Services were also contracted to provide the Site Assessment as required by the aforementioned regulations. The contract provides the basis for this report.

1.3 Limitations:

The content of this report and all site assessment activities contained herein are limited to the specific area(s) of investigation only. This report does not recognize nor address other possible areas, if any, of contamination within or surrounding the subject property.

2.0 BACKGROUND INFORMATION

2.1 Site Description and History:

Map 1 in Appendix A provides the location of the project facility relative to local topographic and manmade features. Although requested, no information has been received from the DNR to determine previous site history. The property now supports the Glenwood Work Center for forestry and land management.

The surrounding topographic features indicate that the property lies on a relatively flat valley floor southeast of Mt. Adams. The valley floor is slightly sloped to the southeast. The There are two surface waterways close to the project site. Frasier Creek is located approximately 1/2 mile east of the site, and Bird Creek is approximately 1/4 mile west of the site. The immediate physical boundaries include residential homes to the north, south, and west. The abandoned Glenwood school site borders the property to the east.

The property supports two building structures. The initial work scope authorized removal of soils contaminated with used motor oil and the removal of a concrete slab on the west side of the maintenance storage building. During the progress of work, a second area of soil contamination was discovered beneath the slab to the west of the maintenance storage building. This area contained soils saturated with gasoline contamination. Based on informal interviews with site personnel, the slab was home for a fuel dispensing pump from an underground storage tank to contain and dispense gasoline products. Approximately two years ago, the pump and tank were removed by another contractor. Soil contamination was evident at that time but no remedial actions were undertaken to achieve cleanup of the site.

Domestic water for the site is supplied by the city of Glenwood. The DNR also owns a lot to the west of Court Street. This property previously contained a dip tank for treatment of wood products. The dip tank was identified by site personnel to have contained pentachlorophenol. In their opinion, soil contamination was evident at the time when they removed the tank and backfilled the site. The scope of this contract did not authorize investigation of this area. The location of this dip tank was near the northwest corner of the lot.

Sketch 1 of Appendix A shows the locations of the building structures and the contaminated soil sites.

2.2 Site Geology:

The lithology of native soils encountered on site featured a sandy silt from the surface to approximately 7', and a coarse sand and gravel with some cobble, 4 inch minus, from 7' to the maximum excavation depth of 23'.

2.3 Site Hydrology:

An apparent groundwater table was found at a depth of approximately 13 feet beneath the surface. Based on informal interviews and local topographic data, the flow direction of this water table was presumed to be to the southeast.

Furthermore, data from another recent project at the Klickitat County, Glenwood City Shop, featured the installation of monitoring wells which confirmed the groundwater flow direction to the southeast. The Glenwood City Shop facility is located approximately 1 block to the southeast of the DNR site property.

3.0 SCREENING, ANALYTICAL, AND SAMPLING METHODS

3.1 Field Screening Methods:

The field screening techniques for this project include Thin Layer Chromatography (TLC) for semi-volatile petroleum products (e.g. diesel fuel, motor oil) and Total Organic Vapor (TOV) analysis for more volatile products (e.g. gasoline). The TLC method provides a direct comparison of determined values in parts per million (ppm) to those requirements specified in the governing regulations for cleanup action levels. However, values obtained in field screening of samples shall not be substituted for actual laboratory sampling and analytical results to determine site closures.

TLC values are derived from a field analytical process. Five grams of contaminated soil are washed with a solvent (5 ml of hexane). A precise amount of the analyte is removed using a microliter syringe (typically 50 ul), deposited on a TLC (silica film) plate, and the plate is then placed in the separation tank. The separation tank contains a small amount of the same solvent used to extract the sample. The solvent will wash the TLC plate using a wicking action. This action carries the contaminant up the slide and produces a unique signature dependent upon contaminant and concentration. The plate is removed from the tank and examined using an ultraviolet light and/or placed into another chamber containing iodine crystals. The iodine exposure stains the signature for an unaided visual display.

The analyst compares the intensity of the pattern observed to that of the action limit standard. This method will identify contaminants and concentrations within a range from 50 ppm to 10,000 ppm.

TOV values are determined by using "headspace" measurements that allow the soil contamination to volatilize inside a jar sealed with aluminum foil. The seal is punctured with a vapor probe and the TOV is measured in ppm. Unlike the TLC method, TOV measurements provide a crude correlation to actual analytical values.

A field instrument (GasTech model 1314 SMPN) is used to determine the presence or absence of organic vapors emanating from the soil in headspace (soil confined in a sealed jar) during the clean up phase. This particular instrument employs the principle of heated catalytic elements in a Wheatstone Bridge circuit which react to combustible gases.

3.2 Laboratory Analytical Methods:

To completely characterize a site, identification and quantification of contaminants are essential. The following analyses represent the minimum analytical parameters required for the assessment of petroleum hydrocarbon contaminants in soil or water media:

a. WTPH-HCID. Washington Total Petroleum Hydrocarbons - Hydrocarbon Identification. This method is used to identify what type of contamination is present (e.g. gasoline, diesel, or heavy oil ranges).

b. WTPH-G. Washington Total Petroleum Hydrocarbons - Gasoline. This method is used to quantify gasoline range hydrocarbons as a single group.

c. BTEX. This method is used to specifically identify the volatile aromatic hydrocarbons of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) associated with gasoline products. This analysis is frequently combined with the WTPH-G method.

d. Total Lead. This method will quantify lead products associated with gasoline.

e. WTPH-D. Washington Total Petroleum Hydrocarbons - Diesel. This method will quantify diesel range hydrocarbons as a single group.

f. WTPH-418.1. Washington Total Petroleum Hydrocarbons - Heavy oil. This method, a modified EPA 418.1, will quantify heavy oil hydrocarbons as a single group.

3.3 Cleanup Action Levels:

The Washington State DOE has adopted soil and groundwater cleanup levels from the Washington Administrative Code (WAC), Chapter 173-340. Section 720, of this chapter, establishes the cleanup levels of individual contaminants associated with groundwater, and section 740 establishes cleanup levels for soil media. Each of these sections provides methods for establishing cleanup standards for Leaking Underground Storage Tank (LUST) sites and other hazardous waste sites.

The Method A tables are intended to provide conservative cleanup standards for sites undergoing routine cleanup actions, or for sites with relatively few hazardous substances. It is usually the most appropriate method for LUST sites. The following table summarizes the Method A cleanup standards for substances most likely to be present at LUST sites:

Constituent	Groundwater	Soil
TPH-Gasoline	1 ppm	100 ppm
TPH-Diesel	1 ppm	200 ppm
TPH-Oils	1 ppm	200 ppm
Benzene	5 ppb	500 ppb
Ethylbenzene	30 ppb	20 ppm
Toluene	40 ppb	40 ppm
Xylenes	20 ppb	20 ppm
Total Lead	5 ppb	250 ppm

At least one soil sample from a given site shall be analyzed using the HCID method to confirm the hydrocarbon range(s) of contaminants. Sites suspected or confirmed to have been contaminated by waste oils shall have samples analyzed for chlorinated solvents, BTEX, PCB's, and leachable metals (TCLP) in addition to the TPH-418.1.

Method B provides general procedures for establishing soil cleanup levels that protect groundwater. These procedures incorporate site specific data to determine soil cleanup action levels to ensure adequate protection of local groundwater resources. This method considers the following site factors:

1. Depth to groundwater at the site.
2. Mean annual precipitation in the area.
3. Native soil classification.
4. Sensitivity to the uppermost aquifer.
5. Potential receptors.

These individual factors are used to estimate site specific levels that, while higher than the Method A levels, are determined to protect the groundwater at the site.

3.4 Laboratory Sampling Protocol:

Laboratory samples and analytical requirements were submitted in accordance with the established procedures contained in DOE publication 90-52 "Guidance for Site Checks and Site Assessments for Underground Storage Tanks". The results of the samples are presented within Appendix C of this report. The following protocol was used for soil and water sampling:

1. Laboratory certified clean sampling containers were used for each analytical method.

2. Gloves and sampling tools were changed and cleaned between sampling locations.

3. For soil samples, at least 6 inches of soil was removed immediately prior to obtaining laboratory samples.

4. All soil samples were packed tightly in the sample container, a 4-ounce, wide-mouth, borosilicate glass jar, to minimize head-space. The containers were secured with a teflon-lined cap.

5. For water samples, each container was completely filled and tightly capped with a zero headspace (no visible bubbles when inverting the container).

6. Samples were chilled in wet ice on site until final packaging in strong tight coolers with blue ice for shipment to the analytical laboratory.

7. A complete sample chain of custody form was completed and enclosed with each sealed cooler shipped to the laboratory.

8. Field sampling logs contained a complete record of samples and shipments to the laboratory. Copies of the actual chain of custody were kept with the field logbook.

4.0 SITE INVESTIGATION/CHARACTERIZATION

4.1 Used Oil Soil Contamination Investigation:

The contract specification document provided by the DNR initially specified an area of "visible" heavy oil contamination located west of the 10'W X 18'L concrete slab. This area was estimated to be 4'L X 4'W X 3'D. Sketch 1 in Appendix A illustrates this location.

We began our investigation with test pits in an attempt to locate the contamination. One test pit was placed within the area specified by the specification document. Through the use of field screening, specified in section 3.0, we found approximately 3 to 4 cubic yards of low level heavy oil contamination. This material was removed stockpiled on and covered with 6 mil visqueen.

A second area of used oil contaminated soils was located north of the specified area. This second area was discovered during the assessment of the gasoline contaminated soils found beneath the concrete slab. A sample from test pit T-2, represented the highest level of contamination found. Laboratory analyses were performed using the WTPH-418.1 and EPA 8010 methods. The TPH result was 14,000 ppm and the 8010 result indicated no significant contamination of chlorinated solvents above established cleanup limits. Based on informal interviews with site personnel, this limited area was used in the past as a vehicle degreasing and wash down pit.

Approximately 100 cubic yards of contaminated soils were removed from this location. The soils were stockpiled on and covered with 6 mil visqueen. Final laboratory analyses of samples G-3 through G-7 confirmed the successful removal of the heavy oil contaminated soils from this location.

4.2 Gasoline Contaminated Soil Investigation:

After the removal of the concrete slab, gasoline contaminated soils were immediately detected by olfactory (sense of smell) response. We began excavating vertically beneath the area of the suspected dispensing pump location. A soil sample was obtained at a depth of 12'. This sample was analyzed by the WTPH-G/BTEX method. The results of that analysis indicated a TPH value of 16,000 ppm. There appeared to be no presence of benzene, but other volatile aromatics such as ethylbenzene and xylene were present well in excess of established limits.

A limited site characterization was performed using test pits to determine the horizontal extent of the soil contamination. Three pits were placed north, east, and south of the source. Test pit T-2 as mentioned in section 4.1 identified heavy oil contamination. However, no gasoline contamination was identified. Test pits T-1 and T-3, east and south respectively, were also free of gasoline contaminants. The western boundary of the excavation is Court Street. In order to keep the road open, no test pit was placed to the west at this time.

Field screening using the soil in headspace method was used to monitor the progress of the excavation for the gasoline contaminated soils. The total excavation exhumed approximately 1,600 cubic yards of material. The total volume of contaminated soils is approximately 1,120 which includes the 100 cubic yards of the used oil contamination. Clean soils were excavated as overburden to reach the contaminated material. The estimated volume of clean material is 480 cubic yards.

Final laboratory analyses of samples G-8 through G-18 indicated successful removal of the contaminated portion of the soils. This site and the bordering heavy oil excavation site have been backfilled to grade.

4.3 Water Investigation:

The apparent groundwater table was at a depth of 13' during the time of the contaminated soil excavation. An initial water sample was obtained when first encountered and analyzed using the WTPH-G/BTEX method. The results of that analysis indicated a TPH of 60 ppm.

In order to control the groundwater during soil excavation, a pump was installed in the bottom of the excavation. Two 6,500 gallon capacity polyethylene tanks were obtained and placed on-site to contain groundwater pumped from the excavation. A total of approximately 11,000 gallons of groundwater were pumped and contained within these tanks. Water samples from the groundwater table were again obtained after recharge when the soil excavation was terminated. The results of that analysis, sample G-19, indicated no contamination in excess of established limits.

At the conclusion of the excavation process, the groundwater contained within the two tanks was also sampled and analyzed using the WTPH-G/BTEX method. The results of the analyses indicated no significant contamination in excess of established limits. The water was disposed of within the excavation during the backfill process.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions:

1) Approximately 100 cubic yards of soil contaminated with heavy oil hydrocarbons were removed from the northwest corner of the property. Contaminant concentrations range from <100 ppm to 14,000 ppm via the WTPH-418.1 method. This material was stockpiled on and covered with 6 mil visqueen. The material remains on-site for future disposition by the DNR. Laboratory samples confirmed the excavation to be free of contaminants in excess of established limits. The excavation was backfilled to grade.

2) Approximately 1,020 cubic yards of gasoline contaminated soils were removed, stockpiled on and covered with 6 mil visqueen. The contaminant concentrations range from <1 ppm to 16,000 ppm. The material remains on-site for future disposition by the DNR. Laboratory samples confirmed the excavation to be free of contaminants in excess of established limits. The excavation was backfilled to grade.

3) Approximately 480 cubic yards of clean soil (overburden) was removed to exhume the contaminated soils. This clean material was reused as backfill of the excavation.

4) Approximately 11,000 gallons of groundwater were pumped into two 6,500 gallon capacity holding tanks. Water samples were analyzed for contaminants from the holding tanks. No significant contaminants were detected in excess of established limits. The water was discharged to the excavation during backfill.

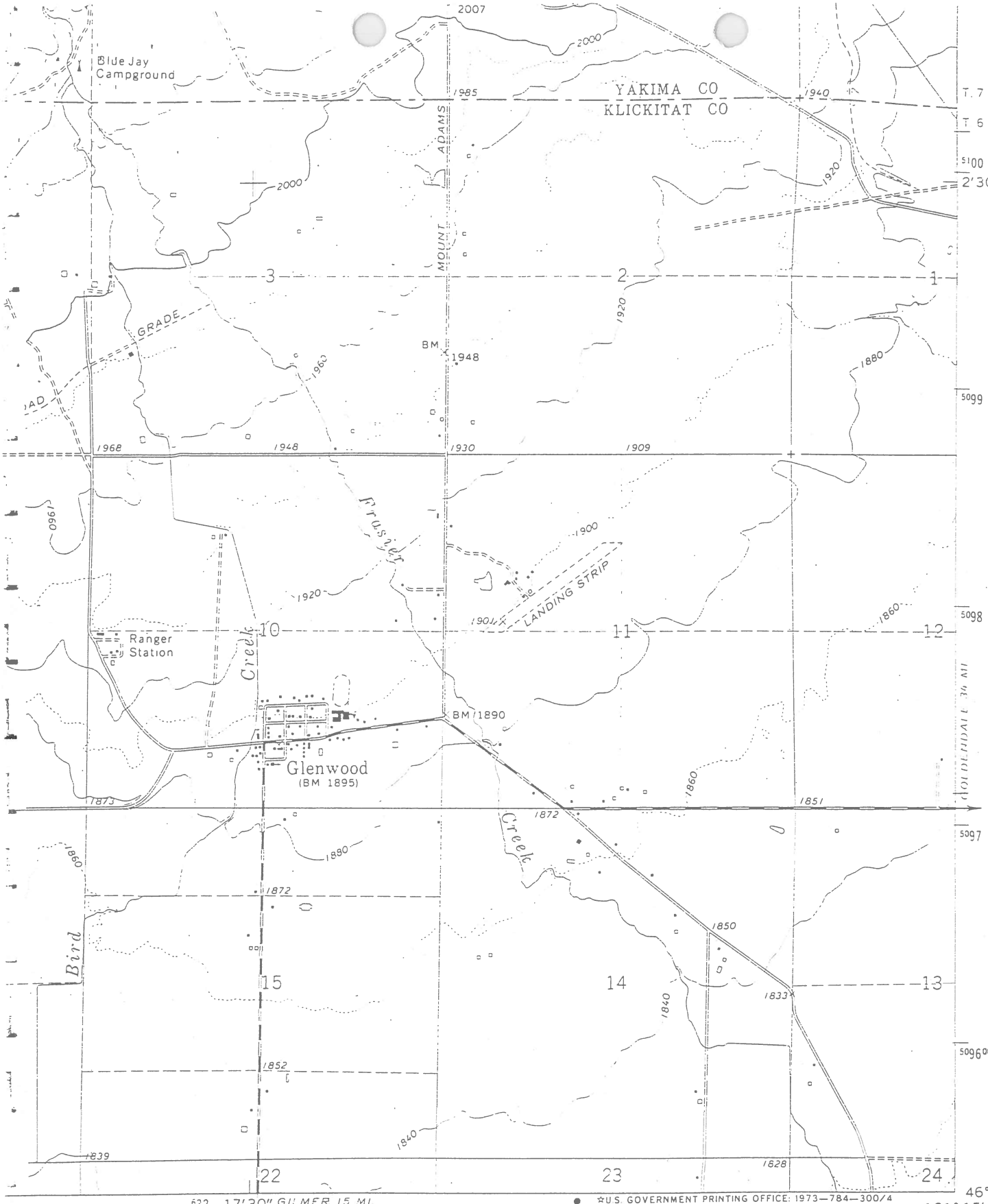
5.2 Recommendations:

1) We recommend disposal of the stockpiled contaminated soils at this facility to an approved off-site location. The following suggestions are provided for the DNR's consideration to evaluate off-site disposal. This list is not all-inclusive.

*	EPA Information, Contaminated Soils Department	(206) 553-0125
*	Northwest EnviroService, Inc.	(206) 622-1085
*	Applied Geotechnology, Inc.	(206) 453-8383
*	Oregon Hydrocarbon, Inc.	(503) 735-9525
*	RemTech, Inc.	(509) 624-0210

APPENDIX A

MAPS AND SKETCHES



MAP 1 APPENDIX A
GLENWOOD TOPOGRAPHIC

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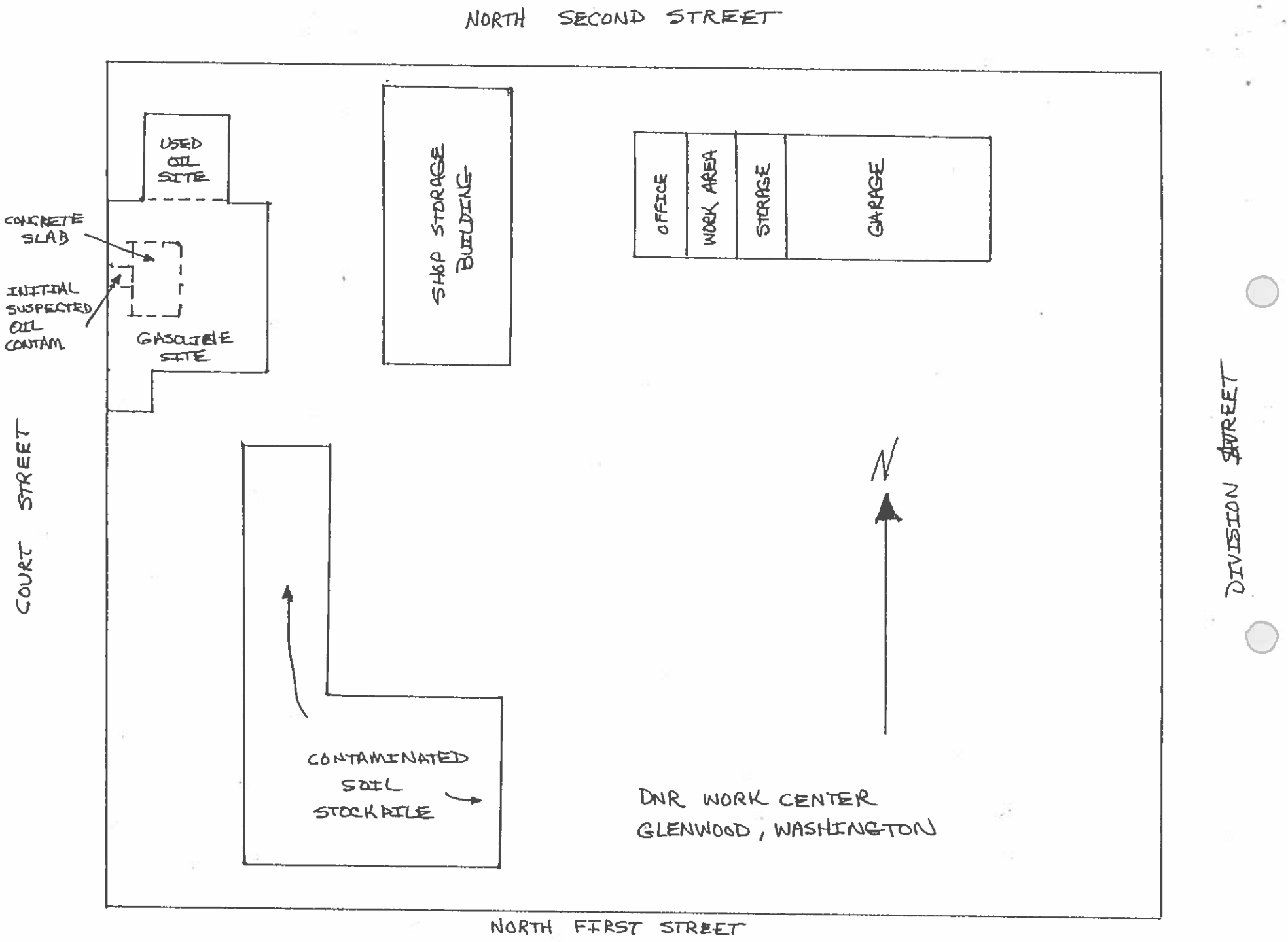

NORTH SECOND STREET
USED OIL SITE
CONCRETE SLAB
INITIAL SUSPECTED OIL CONTAM
GASOLINE SITE
SHOP STORAGE BUILDING
OFFICE
WORK AREA
STORAGE
GARAGE
COURT STREET
DIVISION STREET
N
CONTAMINATED SOIL STOCKPILE
DNR WORK CENTER
GLENWOOD, WASHINGTON
NORTH FIRST STREET

APPENDIX B

REQUIRED DOE CHECKLISTS

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only	
Owner #	
Site #	

INSTRUCTIONS:

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): N/A

Site/Business Name: GLENWOOD DNR WORK CENTER

Site Address: COURT + N. 2ND STREET, GLENWOOD (Street) Telephone: (206) 902-1162

GLENWOOD (City) WA. (State) 98619 (ZIP-Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
	N/A	

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- ____ UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- X Other (describe): Investigate surface contaminated soil.

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on a vicinity map.		X
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	X	
3.	A summary of UST system data is provided. (see Section 3.1)		X
4.	The soils characteristics at the UST site are described. (see Section 5.2)	X	
5.	Is there any apparent groundwater in the tank excavation?	X	
6.	A brief description of the surrounding land use is provided. (see Section 3.1)	X	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	X	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	X	
	- groundwater samples distinguished from soil samples (if applicable)	X	
	- samples collected from stockpiled excavated soil		X
	- tank and piping locations and limits of excavation pit	X	
	- adjacent structures and streets	X	
	- approximate locations of any on-site and nearby utilities		X
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		X
10.	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	X	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.		X
12.	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has **not** occurred.		X

SITE ASSESSOR INFORMATION

THOMAS H. SUNDAY JR. — Person registered with Ecology

E.P. JOHNSON CONSTRUCTION, INC. — Firm Affiliated with

Business Address: RT#7 BOX 430-B (Street)

Telephone: (509) 735-2479

KENNEWICK (City) WA. (State) 99337 (ZIP+Code)

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

1/25/93 — Date

Thomas H. Sunday Jr. — Signature of Person Registered with Ecology

APPENDIX C

LABORATORY ANALYTICAL RESULTS

TABLE 1

DNR PROJECT 92-F12 GLENWOOD WORK CENTER
SAMPLING LOCATIONS

SAMPLE ID	LOCATION DESCRIPTION.....
G-01	SOIL, APPROXIMATELY 12' DEPTH, UNDER AREA OF SUSPECT ABANDONED GASOLINE PUMP.
G-02	APPARENT GROUNDWATER TABLE, 13' DEPTH, UNDER AREA OF SUSPECT GAS PUMP.
G-03	NORTH WALL OF WASTE OIL EXCAVATION.
G-04	WEST WALL OF WASTE OIL EXCAVATION.
G-05	SOUTH WALL OF WASTE OIL EXCAVATION.
G-06	EAST WALL OF WASTE OIL EXCAVATION.
G-07	BOTTOM, CENTER, OF WASTE OIL EXCAVATION, APPROXIMATE 10' DEPTH.
	(THE FOLLOWING WALL SAMPLES FROM THE GASOLINE EXCAVATION WERE OBTAINED BETWEEN DEPTHS OF 17 TO 20 FEET.)
G-08	NORTH WALL, WEST SIDE, OF GASOLINE EXCAVATION.
G-09	WEST WALL, NORTH SIDE, OF GASOLINE EXCAVATION.
G-10	WEST WALL, SOUTH SIDE, OF GASOLINE EXCAVATION.
G-11	SOUTH WALL, WEST SIDE, OF GASOLINE EXCAVATION.
G-12	SOUTH WALL, EAST SIDE, OF GASOLINE EXCAVATION.
G-13	EAST WALL, SOUTH SIDE, OF GASOLINE EXCAVATION.
G-14	EAST WALL, NORTH SIDE, OF GASOLINE EXCAVATION.
G-15	NORTH WALL, EAST SIDE, OF GASOLINE EXCAVATION.
G-16	NE SECTION OF GASOLINE EXCAVATION FLOOR, APPROXIMATE DEPTH OF 22'.
G-17	SE SECTION OF GASOLINE EXCAVATION FLOOR, APPROXIMATE DEPTH OF 22'.
G-18	SW SECTION OF GASOLINE EXCAVATION FLOOR, APPROXIMATE DEPTH OF 22'.
G-19	WATER SAMPLE FROM EXCAVATION BOTTOM NW SECTION.
G-20	WATER SAMPLE FROM STORAGE TANK #1.
G-21	WATER SAMPLE FROM STORAGE TANK #2.
T1-13	TEST PIT #1, 13' DEPTH.
T2-04	TEST PIT #2, 4' DEPTH.
T2-13	TEST PIT #2, 13' DEPTH.
T3-13	TEST PIT #3, 13' DEPTH.

TABLE 2

DNR PROJECT 92-F12 GLENWOOD WORK CENTER
SAMPLE RESULTS

		NORMAL REQUIRED ANALYSES								OTHER ANALYSES	
					B-T-E-X						
SAMPLE ID	MATRIX	WTPH-G GAS ppm	WTPH-D DIESEL ppm	WTPH-418.1 OILS ppm	BENZENE ppb	TOLUENE ppb	ETHYL-BENZENE ppb	XYLENE ppb	TOTAL LEAD ppm		
G-01	SOIL	16000 *	N/A	N/A	<50	<250	24000 *	165000 *	6.3		
G-02	WATER	60 *	N/A	N/A	<5	50 *	50 *	5000 *	N/A		
G-03	SOIL	N/A	N/A	<100	N/A	N/A	N/A	N/A	N/A		
G-04	SOIL	N/A	N/A	<100	N/A	N/A	N/A	N/A	N/A		
G-05	SOIL	N/A	N/A	<100	N/A	N/A	N/A	N/A	N/A		
G-06	SOIL	N/A	N/A	<100	N/A	N/A	N/A	N/A	N/A		
G-07	SOIL	N/A	N/A	<100	N/A	N/A	N/A	N/A	N/A	(8010)	
G-08	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-09	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-10	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-11	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-12	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-13	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-14	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-15	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	N/A		
G-16	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	35		
G-17	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	12		
G-18	SOIL	<1.0	N/A	N/A	<50	<50	<50	<50	12		
G-19	WATER	<0.1	N/A	N/A	<1.0	<1.0	<1.0	5	N/A		
G-20	WATER	0.69	N/A	N/A	<1.0	<1.0	<1.0	110 *	N/A		
G-21	WATER	<0.1	N/A	N/A	<1.0	<1.0	<1.0	8	N/A		
T1-13	SOIL	<50	N/A	N/A	<50	<50	<50	<50	N/A		
T2-04	SOIL	N/A	N/A	14000 *	N/A	N/A	N/A	N/A	N/A	(8010)	
T2-13	SOIL	<20	<50	<100	N/A	N/A	N/A	N/A	N/A	(WHCID)	
T3-13	SOIL	<50	N/A	N/A	<50	<50	<50	<50	N/A		

* = RESULT(S) EXCEEDS REGULATORY CLEANUP LEVELS

N/A = NOT ANALYZED

SEE ACTUAL LABORATORY REPORTS FOR ADDITIONAL ANAYLTICAL DATA

ND = NOT DETECTED

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Soil
Date Extracted: July 28, 1992
Date Analyzed: July 28, 1992

WTPH-HCID

Sample #	GC Characterization	o-terphenyl Surrogate Recovery
T2-13	<20 ppm Gasoline <50 ppm Diesel Fuel <100 ppm Heavy Oil	120%

QUALITY ASSURANCE

Method Blank	<20 ppm Gasoline <50 ppm Diesel Fuel <100 ppm Heavy Oil	120%

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Soil
Units: ppb
Date Extracted: July 28, 1992
Date Analyzed: July 28, 1992

ANALYSIS BY EPA 8020 & WTPH-G
(PURGE & TRAP)

Sample #:	G-1	T1-13	T3-13
Dilution Factor	1000	50	50
Analyte:			
Benzene	<50[N]	<50	<50
Toluene	<250[N,Z]	<50	<50
Ethylbenzene	24,000	<50	<50
m,p-Xylene	>100,000	<50	<50
o-Xylene	65,000	<50	<50
WTPH-G units: ppm	16,000	<50	<50
4-Bromoflourobenzene Surrogate Recovery	110%	69%	68%

N-Data from 1:50 dilution.

Z-Interferences were present which prevented the quantitation of the analyte indicated below the given detection limit.

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Soil
Units: ppb
Date Extracted: July 8, 1992
Date Analyzed: July 8, 1992

ANALYSIS BY EPA 8020 & WTPH-G
(PURGE & TRAP)

QUALITY CONTROL

Sample #: T1-13

	Method Blank	Sample Concentration	Duplicate Concentration	RPD
Dilution Factor	50	50	50	
Analyte:				
Benzene	<50	<50	<50	0%
Toluene	<50	<50	<50	0%
Ethylbenzene	<50	<50	<50	0%
m,p-Xylene	<50	<50	<50	0%
o-Xylene	<50	<50	<50	0%
WTPH-G units: ppm	<50	<50	<50	0%
4-Bromofluorobenzene Surrogate Recovery	80%	69%	68%	

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Soil
Units: ppb
Date Extracted: July 28, 1992
Date Analyzed: July 28, 1992

ANALYSIS BY EPA 8020 & WTPH-G
(PURGE & TRAP)

MATRIX SPIKE QUALITY CONTROL

Sample #: T1-13
Spiked @ 1000 ppb

	M.S. Conc.	Percent Recovery	M.S. Dup. Conc.	Percent Recovery	RPD
Dilution Factor	50		50		
Analyte:					
Benzene	660	66%	660	66%	0%
Toluene	676	68%	675	68%	1.5%
Ethylbenzene	700	70%	700	70%	0%
m,p-Xylene	689	69%	689	69%	0%
o-Xylene	685	68%	686	69%	1.5%
4-Bromofluorobenzene Surrogate Recovery	66%		65%		

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Water
Units: ppb
Date Extracted: July 31, 1992
Date Analyzed: July 31, 1992

ANALYSIS BY EPA 8020 & WTPH-G
(PURGE & TRAP)

Sample #:	G-2
Dilution Factor	10
Analyte:	
Benzene	<5[N,Z]
Toluene	50
Ethylbenzene	50
m,p-Xylene	3000[V]
o-Xylene	2000[V]
WTPH-G units: ppm	60
4-Bromoflourobenzene Surrogate Recovery	92%

N-Data from 1:1 dilution.

V-Data from 1:500 dilution.

Z-Interferences were present which prevented the quantitation of the analyte indicated below the given detection limit.

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Water
Units: ppb
Date Extracted: July 31, 1992
Date Analyzed: July 31, 1992

ANALYSIS BY EPA 8020 & WTPH-G
(PURGE & TRAP)

QUALITY CONTROL

Sample #: G-2

	Method Blank	Sample Concentration	Duplicate Concentration	RPD
Dilution Factor	1	10	10	
Analyte:				
Benzene	<1	<5[N,V]	<5[N,V]	0%
Toluene	<1	50	40	15%
Ethylbenzene	<1	50	40	11%
m,p-Xylene	<1	3000[V]	4000[V]	20%
o-Xylene	<1	2000[V]	2000[V]	14%
WTPH-G units: ppm	<1	60	60	6.1%
4-Bromofluorobenzene Surrogate Recovery	89%	92%	90%	

N-Data from 1:1 dilution.

V-Data from 1:500 dilution.

Z-Interferences were present which prevented the quantitation of the analyte indicated below the given detection limit.

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Matrix: Water
Units: ppb
Date Extracted: July 31, 1992
Date Analyzed: July 31, 1992

ANALYSIS BY EPA 8020 & WTPH-G
(PURGE & TRAP)

MATRIX SPIKE QUALITY CONTROL

Sample #: G-2
Spiked @ 50 ppb

	M.S. Conc.	Percent Recovery	M.S. Dup. Conc.	Percent Recovery	RPD
Dilution Factor					
Analyte:					
Benzene	A		A		
Toluene	A		A		
Ethylbenzene	A		A		
m,p-Xylene	A		A		
o-Xylene	A		A		
4-Bromofluorobenzene Surrogate Recovery					

A-Matrix Spike data not required due to high sample concentration.

Date of Report: August 3, 1992
Samples Submitted: July 28, 1992
Lab Traveler: 07-033
Project: DNR

Date Analyzed: July 28, 1992

RESULTS OF DRY WEIGHT

Sample #	Moisture
G-1	11%
T1-13	13%
T3-13	12%

CHAIN OF CUSTODY RECORD

E.P. JOHNSON CONSTRUCTION, INC.
Rt. 7 Box 430-B
Kennewick, Washington 99337
Phone (509) 735-2479
Fax (509) 783-0331

07-033

Project # DNR
Page 1 of 1

LABORATORY: ON-SITE ENVIRONMENTAL, INC.
ADDRESS: 2859 152ND AVE N.E., REDMOND, WA. 98052
TELEPHONE: (206) 883-3881
CONTACT: TAMMY HOWARD

SAMPLES TAKEN BY: Thomas H. Sunday J.

Sample No.	Location	Container Description	Date	Time	Sample Type: Bulk	Air	Soil	Water	Other	Analysis Required	Cont. Level
G-1	Soil ~12'	4oz glass	7/23	1400			X			TPHG/BTEX, Pb	H
G-2	Water table	(3) 40ml VOA	7/23	1400				X		TPHG/BTEX	H
T1-13	Pit 1 13'	4oz glass	7/24	0900			X			TPHG/BTEX	L
T2-4	Pit 2 4'	"	7/24	1000			X			TPH 418.1, 8010	H
T2-13	Pit 2 13'	"	7/24	1030			X			WHCID	L
T3-13	Pit 3 13'	"	7/24	1100			X			TPHG/BTEX	L
CE-7	Concrete well	(2) 1 liter glass	7/14	1230				X		WHCID	L

NOTE – Contamination Level is the suspected level of contamination.
L – Low M – Medium H – High

Please not expected contamination levels

Special Instructions: Please hold remainder of T2-13 sample for possible further analyses.

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by: Thomas H. Sunday J.
Received by: Nancy Baxter

2. Relinquished by:
Received by:

3. Relinquished by:
Received by:

4. Relinquished by: Fony Express # 3673915 ~~3673921~~ TMS
Received by:

5. Relinquished by:
Received by:

6. LABORATORY RECIEPT BY: Tammy C. Howard
NUMBER OF SAMPLES: DATE/TIME: 7-28-92 8:05A

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: On - Site Environmental Date: August 13, 1992

Report On: Analysis of Soil Lab No.: 25951

IDENTIFICATION:
Samples received on 07-28-92
Project: DNR

ANALYSIS:

Lab No. 25951-1 Client ID: G-1

ICP Metals Per Method 6010
Date Digested: 07-29-92
Date Analyzed: 07-30-92

Lead, mg/kg	6.3

Lab No. 25951-2 Client ID: T2-4

TPH Per EPA Method 418.1
Date Extracted: 8-10-92
Date Analyzed: 8-10-92

Total Petroleum Hydrocarbons, mg/kg	14,000

Continued . . . . .

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Total Lead

Client: On-Site Environmental
Lab No: 25951
Matrix: Soil
Units: mg/kg
Date: August 13, 1992

METHOD BLANK

Parameter	Blank Value
Lead	< 1.0

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

QUALITY CONTROL REPORT

TPH by Method 418.1

Client: On - Site Environmental
Lab No: 25951mb3
Units: mg/kg
Date: August 13, 1992

METHOD BLANK

Parameter	Blank Value
Total Petroleum Hydrocarbons	< 10

SOUND ANALYTICAL SERVICES, INC.

On - Site Environmental
Project: DNR

August 13, 1992

Lab No. 25951-2 Client ID: T2-4

Halogenated Volatile Organics Per SW-846 Method 8010
Date Extracted: 8-5-92
Date Analyzed: 8-5-92

Compound	Concentration, mg/kg	PQL
Vinyl Chloride	ND	0.05
Methylene chloride	ND	0.05
1,1-dichloroethylene	0.13	0.05
1,1-dichloroethane	ND	0.05
Trans-1,2-dichloroethylene	ND	0.05
1,2-dichloroethane	ND	0.05
Chloroform	ND	0.05
1,1,1-trichloroethane	ND	0.05
Carbon Tetrachloride	ND	0.05
1,2-dichloropropane	ND	0.05
Bromodichloromethane	ND	0.05
Trans-1,3-dichloropropene	ND	0.05
Trichloroethylene	ND	0.05
Cis-1,3-dichloropropene	ND	0.05
1,1,2-trichloroethane	ND	0.05
Tetrachloroethylene	ND	0.05
Chlorodibromomethane	ND	0.05
1,1,2,2-tetrachloroethane	ND	0.05
Bromoform	ND	0.05
Chlorobenzene	ND	0.05
1,2 Dichlorobenzene	ND	0.05
1,3 Dichlorobenzene	ND	0.05
1,4 Dichlorobenzene	ND	0.05

SURROGATE RECOVERY, %	
Bromochloromethane	87
2-bromo-1-chloropropane	101
1,4-dichlorobutane	89

ND - Not Detected

PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

SOUND ANALYTICAL SERVICES

C. LARRY ZURAW

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Halogenated Volatiles by EPA SW-846 Method 8010

i nt: On-Site Environmental
) No: 25951mb2
: ix: Soil
. s: mg/kg
:e: August 13, 1992

METHOD BLANK

Blank No:

Parameter	Blank Value	PQL
Vinyl Chloride	ND	0.05
Methylene chloride	ND	0.05
1,1-dichloroethylene	0.08	0.05
1,1-dichloroethane	ND	0.05
Trans-1,2-dichloroethylene	ND	0.05
1,2-dichloroethane	ND	0.05
Chloroform	ND	0.05
1,1,1-trichloroethane	ND	0.05
Carbon Tetrachloride	ND	0.05
1,2-dichloropropane	ND	0.05
Bromodichloromethane	ND	0.05
Trans-1,3-dichloropropene	ND	0.05
Trichloroethylene	ND	0.05
Cis-1,3-dichloropropene	ND	0.05
1,1,2-trichloroethane	ND	0.05
Tetrachloroethylene	ND	0.05
1,1,2,2-tetrachloroethane	ND	0.05
Bromoform	ND	0.05
Chlorobenzene	ND	0.05
1,2 Dichlorobenzene	ND	0.05
1,3 Dichlorobenzene	0.067	0.05
1,4 Dichlorobenzene	ND	0.05
SURROGATE RECOVERY,%		
Bromochloromethane	76	
2-bromo-1-chloropropane	93	
1,4-dichlorobutane	96	

Not Detected

- Practical Quantitation Limit - These are the detection
ts for this sample. This number is based on sample size,
x and dilution required.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Halogenated Volatiles by EPA SW-846 Method 8010

Client: On-Site Environmental
Lab No: 25951qc1
Matrix: Soil
Units: mg/kg
Date: August 13, 1992

DUPLICATE

Dup No. 25951-2

Parameter	Sample (S)	Duplicate (D)	RPD
Vinyl Chloride	< 0.05	< 0.05	0.0
Methylene chloride	< 0.05	< 0.05	0.0
1,1-dichloroethylene	0.13	0.33	X4
1,1-dichloroethane	< 0.05	< 0.05	0.0
1,2-transdichloroethylene	< 0.05	< 0.05	0.0
1,2-dichloroethane	< 0.05	< 0.05	0.0
Chloroform	< 0.05	< 0.05	0.0
1,1,1-trichloroethane	< 0.05	< 0.05	0.0
Carbon Tetrachloride	< 0.05	< 0.05	0.0
1,2-dichloropropane	< 0.05	< 0.05	0.0
Bromodichloromethane	< 0.05	< 0.05	0.0
Trans-1,3-dichloropropene	< 0.05	< 0.05	0.0
Trichloroethylene	< 0.05	< 0.05	0.0
Cis-1,3-dichloropropene	< 0.05	< 0.05	0.0
1,1,2-trichloroethane	< 0.05	< 0.05	0.0
Tetrachloroethylene	< 0.05	< 0.05	0.0
1,1,2,2-tetrachloroethane	< 0.05	< 0.05	0.0
Bromoform	< 0.05	< 0.05	0.0
Chlorobenzene	< 0.05	< 0.05	0.0
1,2 Dichlorobenzene	< 0.05	< 0.05	0.0
1,3 Dichlorobenzene	< 0.05	< 0.05	0.0
1,4 Dichlorobenzene	< 0.05	< 0.05	0.0
SURROGATE RECOVERY,%			
Bromochloromethane	87	86	
2-bromo-1-chloropropane	101	110	
1,4-dichlorobutane	89	99	

RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2] x 100

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 · TELEPHONE (206) 922-2310 · FAX (206) 922-5047

DATA QUALIFIER FLAGS

: Indicates that the analyte was analyzed for but was not detected. The associated numerical value is the practical quantitation limit, corrected for sample dilution.

The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity. This qualifier is used when estimating a TIC concentration or when the concentration of the analyte is less than the practical quantitation limit.

The identification of this analyte was confirmed by GC/MS.

This analyte was also detected in the associated method blank. There is a possibility of blank contamination.

The concentration of this analyte exceeded the instrument calibration range.

The reported result for this analyte is calculated based on a secondary dilution factor.

This TIC is a suspected aldol-condensation product.

Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.

Contaminant does not appear to be "typical" product. Further testing is suggested for identification.

Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.

RPD for duplicates outside QC limits. Sample was re-analyzed with similar results. Sample matrix is non-homogeneous.

Matrix spike was diluted out during analysis.

Recovery of matrix spike outside QC limits. Sample was re-analyzed with similar results.

Recovery of matrix spike outside QC limits. Matrix interference is indicated by blank spike recovery data.

Surrogate was diluted out during analysis.

Surrogate recovery outside QC limits due to matrix composition.

Surrogate recovery outside QC limits due to high contaminant levels.

CHAIN OF CUSTODY RECORD

E.P. JOHNSON CONSTRUCTION, INC.
Rt. 7 Box 430-B
Kennewick, Washington 99337
Phone (509) 735-2479
Fax (509) 783-0331

07-033

Project # DNR
Page 1 of 1

LABORATORY: ON-SITE ENVIRONMENTAL, INC.
ADDRESS: 2859 152ND AVE N.E., REDMOND, WA. 98052
TELEPHONE: (206) 883-3881
CONTACT: TAMMY HOWARD

SAMPLES TAKEN BY: Thomas H. Sunday J.

Sample No.	Location	Container Description	Date	Time	Sample Type: Bulk	Air	Soil	Water	Other	Analysis Required	Cont. Level
G-1	Soil ~12'	4oz glass	7/23	1400			X			TPHG/BTEX, Pb	H
G-2	Water table	(3) 40ml VOA	7/23	1400				X		TPHG/BTEX	H
T1-13	Pit 1 13'	4oz glass	7/24	0900			X			TPHG/BTEX	L
T2-4	Pit 2 4'	"	7/24	1000			X			TPH 418.1, 8010	H
T2-13	Pit 2 13'	"	7/24	1030			X			WHCID	L
T3-13	Pit 3 13'	"	7/24	1100			X			TPHG/BTEX	L
CE-7	Concrete Well	(2) liter glass	7/14	1230				X		WHCID	L

NOTE – Contamination Level is the suspected level of contamination.
L – Low M – Medium H – High

Please see expected contamination levels

Special Instructions: Please hold remainder of T2-13 sample for possible further analyses.

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by: Thomas H. Sunday J.
Received by: Nancy Berta

2. Relinquished by: _____
Received by: _____

3. Relinquished by: _____
Received by: _____

4. Relinquished by: Pony Express # 3673915 ~~3673921~~ ~~715~~
Received by: _____

5. Relinquished by: _____
Received by: _____

6. LABORATORY RECIEPT BY: Tammy C. Howard
NUMBER OF SAMPLES: _____ DATE/TIME: 7-28-92 8:05A

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: E.P. Johnson Construction, Inc. Date: August 18, 1992

Report On: Analysis of Soil & Water Lab No.: 26107

IDENTIFICATION:
Samples received on 08-04-92
Project: DNR Glenwood

ANALYSIS:

Lab No. 26107-1 Client ID: Comp. G-3 & G-4 (soil)

WTPH-418.1 Modified
Date Extracted: 8-13-92
Date Analyzed: 8-13-92

Heavy petroleum oils, mg/kg (C24+)	< 100

Lab No. 26107-2 Client ID: Comp. G-5 & G-6 (soil)

WTPH-418.1 Modified
Date Extracted: 8-13-92
Date Analyzed: 8-13-92

Heavy petroleum oils, mg/kg (C24+)	< 100

Lab No. 26107-3 Client ID: G-7 (soil)

WTPH-418.1 Modified
Date Extracted: 8-13-92
Date Analyzed: 8-13-92

Heavy petroleum oils, mg/kg (C24+)	< 100

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 26107-3 Client ID: G-7 (soil)

Halogenated Volatile Organics Per SW-846 Method 8010
Date Extracted: 8-5-92
Date Analyzed: 8-5-92

Compound	Concentration, mg/kg	PQL
Vinyl Chloride	ND	0.05
Methylene chloride	2.1	0.05
1,1-dichloroethylene	ND	0.05
1,1-dichloroethane	ND	0.05
Trans-1,2-dichloroethylene	ND	0.05
1,2-dichloroethane	ND	0.05
Chloroform	ND	0.05
1,1,1-trichloroethane	ND	0.05
Carbon Tetrachloride	ND	0.05
1,2-dichloropropane	ND	0.05
Bromodichloromethane	ND	0.05
Trans-1,3-dichloropropene	ND	0.05
Trichloroethylene	ND	0.05
Cis-1,3-dichloropropene	ND	0.05
1,1,2-trichloroethane	ND	0.05
Tetrachloroethylene	ND	0.05
Chlorodibromomethane	ND	0.05
1,1,2,2-tetrachloroethane	ND	0.05
Bromoform	ND	0.05
Chlorobenzene	ND	0.05
1,2 Dichlorobenzene	ND	0.05
1,3 Dichlorobenzene	ND	0.05
1,4 Dichlorobenzene	ND	0.05

SURROGATE RECOVERY, %	
Bromochloromethane	116
2-bromo-1-chloropropane	101
1,4-dichlorobutane	99

ND - Not Detected
PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.
Results are reported blank corrected.

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 25107-4 Client ID: Comp. G-8 & G-15 (soil)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/kg (C7 - C12)	< 1.0
Benzene, mg/kg	< 0.05
Toluene, mg/kg	< 0.05
Ethyl Benzene, mg/kg	< 0.05
Xylenes, mg/kg	< 0.05
SURROGATE RECOVERY, %	
Trifluorotoluene	103

Lab No. 25107-5 Client ID: Comp. G-9 & G-10 (soil)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/kg (C7 - C12)	< 1.0
Benzene, mg/kg	< 0.05
Toluene, mg/kg	< 0.05
Ethyl Benzene, mg/kg	< 0.05
Xylenes, mg/kg	< 0.05
SURROGATE RECOVERY, %	
Trifluorotoluene	110

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 25107-6 Client ID: Comp. G-11 & G-12 (soil)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/kg (C7 - C12)	< 1.0
Benzene, mg/kg	< 0.05
Toluene, mg/kg	< 0.05
Ethyl Benzene, mg/kg	< 0.05
Xylenes, mg/kg	< 0.05
SURROGATE RECOVERY, %	
Trifluorotoluene	106

Lab No. 25107-7 Client ID: Comp. G-13 & G-14 (soil)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/kg (C7 - C12)	< 1.0
Benzene, mg/kg	< 0.05
Toluene, mg/kg	< 0.05
Ethyl Benzene, mg/kg	< 0.05
Xylenes, mg/kg	< 0.05
SURROGATE RECOVERY, %	
Trifluorotoluene	102

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 25107-8 Client ID: G-16 (soil)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/kg (C7-C12)	< 1.0
Benzene, mg/kg	< 0.05
Toluene, mg/kg	< 0.05
Ethyl Benzene, mg/kg	< 0.05
Xylenes, mg/kg	< 0.05
SURROGATE RECOVERY, %	
Trifluorotoluene	95

ICP Metals Per Method 6010
Date Digested: 8-5-92
Date Analyzed: 8-6-92

Lead, mg/kg	35

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 25107-9 Client ID: Comp. G-17 & G-18 (soil)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/kg (C7 - C12)	< 1.0
Benzene, mg/kg	< 0.05
Toluene, mg/kg	< 0.05
Ethyl Benzene, mg/kg	< 0.05
Xylenes, mg/kg	< 0.05
SURROGATE RECOVERY, %	
Trifluorotoluene	102

ICP Metals Per Method 6010
Date Digested: 8-5-92
Date Analyzed: 8-6-92

Lead, mg/kg	12

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 25107-10 Client ID: G-19 (water)

WTPH-G with BTEX by Method 8020
Date Analyzed: 8-6-92

Gasoline, mg/l (C7 - C12)	< 0.1
Benzene, mg/l	< 0.001
Toluene, mg/l	< 0.001
Ethyl Benzene, mg/l	< 0.001
Xylenes, mg/l	0.005
SURROGATE RECOVERY, %	
Trifluorotoluene	64

Lab No. 25107-11 Client ID: G-20 (water)

WTPH-G with BTEX by Method 8020
Date Analyzed: 8-6-92

Gasoline, mg/l (C7 - C12)	0.69
Benzene, mg/l	< 0.001
Toluene, mg/l	< 0.001
Ethyl Benzene, mg/l	< 0.001
Xylenes, mg/l	0.11
SURROGATE RECOVERY, %	
Trifluorotoluene	56

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

E.P. Johnson Construction, Inc.
Project: DNR Glenwood

Lab No. 26107
August 18, 1992

Lab No. 25107-12 Client ID: G-21 (water)

WTPH-G with BTEX by Method 8020
Date Extracted: 8-5-92
Date Analyzed: 8-6-92

Gasoline, mg/l (C7 - C12)	< 0.10
Benzene, mg/l	< 0.001
Toluene, mg/l	< 0.001
Ethyl Benzene, mg/l	< 0.001
Xylenes, mg/l	0.008
SURROGATE RECOVERY, %	
Trifluorotoluene	56

SOUND ANALYTICAL SERVICES

MARTY FRENCH

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Halogenated Volatiles by EPA SW-846 Method 8010

Client: EP Johnson Construction
Lab No: 26107qc1
Matrix: Soil
Units: mg/kg
Date: August 18, 1992

METHOD BLANK

Blank No: 92081003

Parameter	Blank Value	PQL
Vinyl Chloride	ND	0.05
Methylene chloride	ND	0.05
1,1-dichloroethylene	0.08	0.05
1,1-dichloroethane	ND	0.05
Trans-1,2-dichloroethylene	ND	0.05
1,2-dichloroethane	ND	0.05
Chloroform	ND	0.05
1,1,1-trichloroethane	ND	0.05
Carbon Tetrachloride	ND	0.05
1,2-dichloropropane	ND	0.05
Bromodichloromethane	ND	0.05
Trans-1,3-dichloropropene	ND	0.05
Trichloroethylene	ND	0.05
Cis-1,3-dichloropropene	ND	0.05
1,1,2-trichloroethane	ND	0.05
Tetrachloroethylene	ND	0.05
1,1,2,2-tetrachloroethane	ND	0.05
Bromoform	ND	0.05
Chlorobenzene	ND	0.05
1,2 Dichlorobenzene	ND	0.05
1,3 Dichlorobenzene	ND	0.05
1,4 Dichlorobenzene	ND	0.05
SURROGATE RECOVERY,%		
Bromochloromethane	85	
2-bromo-1-chloropropane	113	
1,4-dichlorobutane	90	

ND - Not Detected

PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Halogenated Volatiles by EPA SW-846 Method 8010

Client: EP Johnson Construction
Lab No: 26107qc2
Matrix: Soil
Units: mg/kg
Date: August 18, 1992

DUPLICATE

Dup No. 26107-3

Parameter	Sample (S)	Duplicate (D)	RPD
Vinyl Chloride	< 0.05	< 0.05	0.0
Methylene chloride	2.1	2.1	0.0
1,1-dichloroethylene	< 0.05	< 0.05	0.0
1,1-dichloroethane	< 0.05	< 0.05	0.0
1,2-transdichloroethylene	< 0.05	< 0.05	0.0
1,2-dichloroethane	< 0.05	< 0.05	0.0
Chloroform	< 0.05	< 0.05	0.0
1,1,1-trichloroethane	< 0.05	< 0.05	0.0
Carbon Tetrachloride	< 0.05	< 0.05	0.0
1,2-dichloropropane	< 0.05	< 0.05	0.0
Bromodichloromethane	< 0.05	< 0.05	0.0
Trans-1,3-dichloropropene	< 0.05	< 0.05	0.0
Trichloroethylene	< 0.05	< 0.05	0.0
Cis-1,3-dichloropropene	< 0.05	< 0.05	0.0
1,1,2-trichloroethane	< 0.05	< 0.05	0.0
Tetrachloroethylene	< 0.05	< 0.05	0.0
1,1,2,2-tetrachloroethane	< 0.05	< 0.05	0.0
Bromoform	< 0.05	< 0.05	0.0
Chlorobenzene	< 0.05	< 0.05	0.0
1,2 Dichlorobenzene	< 0.05	< 0.05	0.0
1,3 Dichlorobenzene	< 0.05	< 0.05	0.0
1,4 Dichlorobenzene	< 0.05	< 0.05	0.0
SURROGATE RECOVERY,%			
Bromochloromethane	116	108	
2-bromo-1-chloropropane	101	94	
1,4-dichlorobutane	99	90	

RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2] x 100

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

QUALITY CONTROL REPORT

TPH by Method 418.1

Client: EP Johnson Construction
Lab No: 26107qc3
Units: mg/kg
Date: August 18, 1992

METHOD BLANK

Parameter	Blank Value
Total Petroleum Hydrocarbons	< 100

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

WTPH-G with BTEX by EPA SW-846 Method 8020

Client: EP Johnson Construction, Inc.
Lab No: 26107qc4
Matrix: Soil
Units: mg/kg
Date: August 18, 1992

DUPLICATES

Dup No. 26107-6

Parameter	Sample (S)	Duplicate (D)	RPD	FLAGS
Gasoline (C_7 - C_{12})	< 1.0	< 1.0	0.0	
Benzene	< 0.05	< 0.05	0.0	
Toluene	< 0.05	< 0.05	0.0	
Ethyl Benzene	< 0.05	< 0.05	0.0	
Xylenes	< 0.05	< 0.05	0.0	
SURROGATE RECOVERY, %				
Trifluorotoluene	106	103		

RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2] x 100

Continued.....

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

WTPH-G with BTEX by EPA SW-846 Method 8020

Client: EP Johnson Construction, Inc.
Lab No: 26107qc4
Date: August 18, 1992

METHOD BLANK (soil, mg/kg)

Blank No. 92080603

Parameter	Blank Value
Gasoline (C_7-C_{12})	< 1.0
Benzene	< 0.05
Toluene	< 0.05
Ethyl Benzene	< 0.05
Xylenes	< 0.05
SURROGATE RECOVERY, % Trifluorotoluene	93

METHOD BLANK (water, mg/l)

Blank No. 92080603

Parameter	Blank Value
Gasoline (C_7-C_{12})	< 1.0
Benzene	< 0.001
Toluene	< 0.001
Ethyl Benzene	< 0.001
Xylenes	< 0.001
SURROGATE RECOVERY, % Trifluorotoluene	93

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Total Lead

Client: EP Johnson Construction, Inc.
Lab No: 26107mbl
Matrix: Soil
Units: mg/kg
Date: August 18, 1992

METHOD BLANK

Parameter	Blank Value
Lead	< 1.1

CHAIN OF CUSTODY RECORD

E.P. JOHNSON CONSTRUCTION, INC.
Rt. 7 Box 430-B
Kennewick, Washington 99337
Phone (509) 735-2479
Fax (509) 783-0331

Project # DNR - Glenwood
Page 1 of 2

LABORATORY: SOUND ANALYTICAL SERVICES, INC.
ADDRESS: 4813 PACIFIC HWY EAST, TACOMA WA 98424
TELEPHONE: (206) 922-2310
CONTACT: STEVE LOAGUE

SAMPLES TAKEN BY: Thomas H. Sunday J.

Sample No.	Location	Container Description	Date	Time	Sample Type: Bulk	Air	Soil	Water	Other	Analysis Required	Cont. Level
G-3 }	North Wall	4 oz. glass	7/31	1400			X			} WTPH-418.1	L
G-4 }	West wall		7/31	1406			X			}	L
G-5 }	South wall		7/31	1400			X			} WTPH-418.1	L
G-6 }	East wall		7/31	1400			X			}	L
G-7	Bottom		7/31	1400			X			WTPH-418.1, 8010	L
G-8	North wall		7/31	1430			X			WTPHG+BTEX	L
G-9 }	West wall		7/31	1430			X			} WTPHG+BTEX	L
G-10 }	West wall		7/31	1430			X			}	L
G-11 }	South wall		7/31	1430			X			} WTPHG+BTEX	L
G-12 }	South wall		7/31	1430			X			}	L
G-13 }	East wall		7/31	1430			X			} WTPHG+BTEX	L
G-14 }	East wall		7/31	1430			X			}	L
G-15	North wall	4 oz. glass	7/31	1430			X			WTPHG+BTEX	L

Composite G-8 + G-15

NOTE – Contamination Level is the suspected level of contamination.
L – Low M – Medium H – High

Special Instructions: (} - indicates composite please)

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by: Thomas H. Sunday J. 8/3/92
Received by: Nancy Cuesta 8/3/92

2. Relinquished by: _____
Received by: _____

3. Relinquished by: _____
Received by: _____

4. Relinquished by: Pony Express # 3674582
Received by: _____

5. Relinquished by: _____
Received by: _____

6. LABORATORY RECIEPT BY: Mary Custer
NUMBER OF SAMPLES: _____ DATE/TIME: 8/4/92 1pm

CHAIN OF CUSTODY RECORD

E.P. JOHNSON CONSTRUCTION, INC.
Rt. 7 Box 430-B
Kennewick, Washington 99337
Phone (509) 735-2479
Fax (509) 783-0331

Project # DNR- Glenwood
Page 2 of 2

LABORATORY: SOUND ANALYTICAL SERVICES, INC.
ADDRESS: 4813 PACIFIC HWY EAST, TACOMA WA 98424
TELEPHONE: (206) 922-2310
CONTACT: STEVE LOAGUE

SAMPLES TAKEN BY: Thomas H. Sunday J.

Sample No.	Location	Container Description	Date	Time	Sample Type: Bulk	Air	Soil	Water	Other	Analysis Required	Cont. Level
G-16	NE Floor	4 oz. glass	7/31	1430			X			WTPHG+BTEX, Pb	L
G-17 } comp	SE floor	"	7/31	1430			X			} WTPHG+BTEX, Pb	L
G-18 }	SW floor	"	7/31	1430			X			}	L
G-19	Pit water	(2) 40ml VOA	7/31	1430				X		WTPHG+BTEX	L
G-20	Tank (N) water	(2) 40ml VOA	7/31	1500				X		WTPHG+BTEX	L
G-21	Tank (S) water	(2) 40ml VOA	7/31	1500				X		WTPHG+BTEX	L

NOTE – Contamination Level is the suspected level of contamination.
L – Low M – Medium H – High

Special Instructions: (} - indicates composite please)

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by:
Received by:

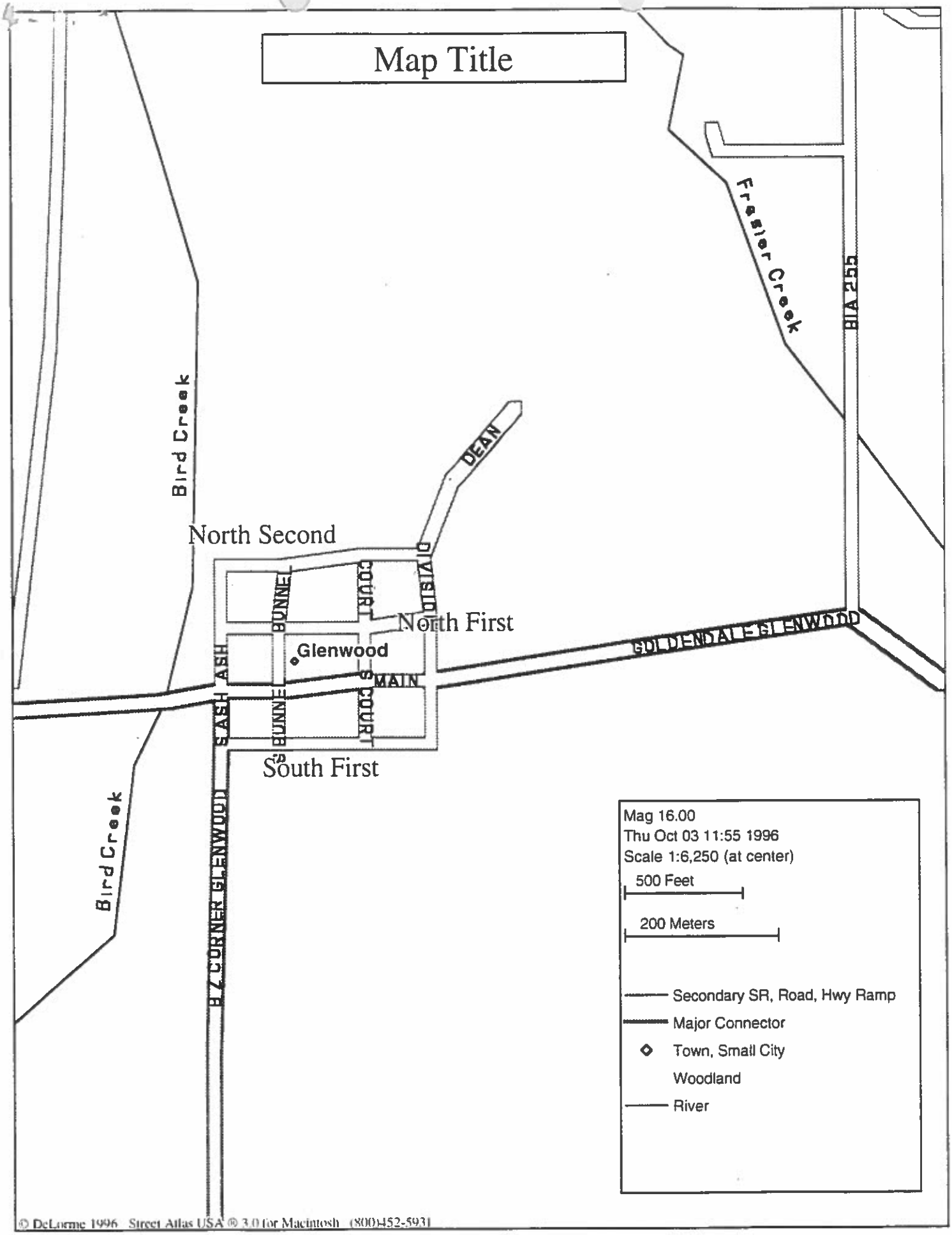
2. Relinquished by:
Received by:

3. Relinquished by:
Received by:

4. Relinquished by: Pony Express # 3674582
Received by:

5. Relinquished by:
Received by:

6. LABORATORY RECIEPT BY: Mary Cutlip
NUMBER OF SAMPLES: DATE/TIME: 8/4/92 1pm



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UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure activities. It must be signed and dated by either the owner/operator of the UST to be closed or his/her authorized representative. (This could be the firm contracted to do the work.) Ecology will notify the identified person of the earliest date closure/decommissioning activities may commence.

For questions on completing this form please call (206) 459-6293.

Please type or use ink.

The completed checklist should be mailed to:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
RECEIVED
JAN 18 1991

1. TANK OWNER AND LOCATION

UST Owner/Operator: WA STATE DEPT. OF NATURAL RESOURCES

Owners Mailing Address: 1102 S. QUINCE, EV-11
Street / P.O. Box

OLYMPIA / WA / 98504
City / State / ZIP Code

Telephone: ( ) 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): N/A

Site/Business Name: DNR GLENWOOD, SE

Site Address:
Street / County

GLENWOOD / WA
City / State / ZIP Code

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (If known):

Firm: UNKNOWN, CONTRACTOR

Address:
Street / P.O. Box

City / State / ZIP Code

Telephone: ( ) Contact Name:

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
1	03-1991	1000	16	UNLEADED
→ 2	"	300	27	DIESEL

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE:

Stephen Cullen / ENVIRONMENTAL ENGINEER / 01-16-91
Signature / Title / Date

ECY 101-155 11/90

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Mail Stop PV-11 • Olympia, Washington 98504-8711 • (206) 459-6000

January 24, 1991

Mr. Ayman Oubari
Dept. of Natural Resources
Division of Engineering
1102 S. Quince, EV-11
Olympia, WA 98504

Dear Mr. Oubari:

This is to acknowledge receipt of your 30-day notice of intent to close underground storage tank(s) located at DNR Glenwood, Belfair, Washington.

We received your letter on January 18, 1991.

Your 30-day notice has been forwarded to the appropriate regional office. Field people with the Underground Storage Tank Program may visit your site within the 30-day period. However, with the many tank closures now taking place, it will not be possible to visit every site. If you have not been contacted by the time thirty days have elapsed from the date we received your notice letter (noted above), you may proceed with closure.

If you did not request a full closure packet, but would like to receive one, you may do so by calling 1-800-826-7716 (in Washington state only) or 206-459-6293. This closure packet contains a form entitled "Notice of Permanent Closure of Underground Storage Tank(s)". For your convenience, we have enclosed a copy of this form. Please complete this form and return it to the Department of Ecology when tank closure is complete.

Sincerely,

Sue L. Simms
Regulatory Specialist

SLS:sd

Enclosure

From: ROBERT CUTLER
To: R10SEA1.WATER.KEELER-GEOFF, R10SEA1.WATER.HOLT-KAT...
Subject: LUST Site: 4-260107, Glenwood DNR

8/22/96: Talked to Ayman Obari, 360-902-1158, about the site. Previous site manager is under an internal investigation, so he has been assigned the site. Explained what reports were needed to close the site. He said that it had been reported that Ecology had sampled the site and it was done. I told him that I did not know who that would be as Ecology knows that I am working the site and that it is on a reservation. Asked for a name, but he said the file had none in it.

He said that there was criminal investigation going on with some of the other sites he inherited and that he would get to this one after those were taken care of. Gave him the background on the site, which he did not have in his files. He will contact the previous contractor for a report and do the soil pile remediation sampling himself, as well as doing some additional sampling on-site to make sure everything is alright.

From: ROBERT B CUTLER (RCUTLER)
To: hscott, gkeeler
Date: Thursday, May 6, 1993 3:35 pm
Subject: WDNR, Glenwwood, Yakima Reservation

5/6/93: Obe Dehimbo, WDNR, called. He reported that the soil pile had been removed to a rock quarry on 4/28/93. Testing showed clean. (Need to check this as previous reports showed a maximum of 16,000 ppm in soils excavated.)

From: ROBERT B CUTLER (RCUTLER)
To: R0WOO1:OLYMPIA:Seattle:R10MD1:R10WD1:GPRICE
Date: Wednesday, February 10, 1993 7:44 am
Subject: Glenwood-WDNR LUST Site -Reply -Reply

They have contamination. Original SA showed clean. Followup showed dirty. Awaiting site characterization report. No notification form sent- site notification information at Ecology (i.e., you can contact them for a transfer).

Robert/WOO

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

November 14, 1997

Reply To
Attn Of: OW-137

Ayman Obari
Washington State
Department of Natural Resources
Engineering Division
Post Office Box 47030
Olympia, Washington 98503-7030

RE: Permanent Closure of Underground Storage Tanks at Glenwood Workstation, Facility ID # 4-260107
Yakama Indian Reservation, Washington

Dear Mr. Obari:

The U.S. Environmental Protection Agency (EPA) received your Completion of Underground Storage Tank Removal/Closure form for the tank at the Glenwood Workstation located at the corner of Court and N 2nd Streets, Glenwood, Washington.

Based on the information submitted, EPA has determined that closure of your tank appears to conform to the permanent closure requirements stated in 40 C.F.R. §§ 280.71 and 280.72, and that existing soil and water appear to meet the Washington State cleanup levels for required petroleum releases. We are therefore closing the file for this tank.

If you need additional information regarding this issue, please call me at (206) 553-2580.

Sincerely,

Katherine M. Holt

Katherine M. Holt
Underground Storage Tank Program

cc: Moses Dick Squeochs, Yakama Indian Nation
Robert Cutler, EPA-WOO
Pamela Harris, EPA-Regional Office

From: ROBERT CUTLER
To: R10SEA1.WATER(SCOTT-HAROLD)
Date: 11/4/97 4:22pm
Subject: Glenwood DNR LUST Site: 4-260107 -Reply -Reply

Without conditions.

>>> HAROLD SCOTT 11/04/97 10:43am >>>
Hello Robert -

Not to be picky, but should Katie send out a Clean Closure letter or one w/conditions?

Also, Pamela said that Deborah had approved the draft Closure w/condition letters. However, I understand Pamela will now work w/Deborah to revise the letters of notification to the Tribes that will lean more toward "EPA has determined ...." instead of "EPA requests Tribal approval ...."

Thanks,
Harold

CC: R10SEA1.WATER(HARRIS-PAMELAJ, HOLT-KATHERINE),

From: ROBERT CUTLER
To: R10SEA1.WATER.HOLT-KATHERINE
Date: 11/4/97 10:20am
Subject: Glenwood DNR LUST Site: 4-260107

Please send a closure letter, as they have satisfied all cleanup requirements. Note: the site contact for DNR is now Ayman Obari, 360-902-1158.

Robert Cutler/WOO

CC: R10SEA1.WATER.SCOTT-HAROLD

LUST SITE RANKING EVALUATION FOR INDIAN LANDS, EPA REGION 10

4-26/07

Site Name: Glenwood DNR

Reservation: Yakama

Initial Checklist by: (Name) _____

(Company) _____

(Date) _____

EPA Review by: (Name) Robert Cutler

(Date) 11/4/97

CRITERIA	POINTS	MATRIX RANK (Circle One)
1. Impact Potential		
a. Fire, vapor, explosions	0	
b. Source type		3
c. Release volume		6.1
d. Additional migration pathways		0
Subtotal		9.1 H M L NFA
2. Ground Water and Surface Water Contamination		
a. Depth to ground water		3
b. Aquifer usage	5	
c. Water supply proximity		5
d. Surface water proximity		4
e. Ground Water Contamination		30
Subtotal		47 H M L NFA
3. Soil Contamination		25 H M L NFA
4. Other Site Specific Considerations		
a. Irreplaceable fuel supply		
b. Other considerations		
Subtotal		0 H M L NFA
TOTAL RANKING SCORE		81.1 H M L NFA

COMMENTS :

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

JUN 2 0 1991

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: D N R.

EPA – REGION 10
RECEIVED
AUG 0 6 1992
WATER DIVISION
DRINKING WATER/GROUND WATER

Owners Address: _____ (Street / P.O. Box)

_____ (City / State / ZIP-Code)

Telephone: 206 753-2093

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood

Site Address: _____ (Street / County)

Glenwood (City) Wa (State) _____ (ZIP-Code)

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: Michael Cunx

Address: P.O. Box 112137 (Street / P.O. Box)

Tacoma (City) WA (State) 98411 (ZIP-Code)

Telephone: (206) 572-9934

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): 1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Last substance stored: unleaded

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

EPA – REGION 10
RECEIVED
AUG 0 6 1993
WATER DIVISION
DRINKING WATER/GROUND WATER

_____ Investigate suspected release due to on-site environmental contamination
_____ Investigate suspected release due to off-site environmental contamination
_____ Extend temporary closure of UST system for more than 12 months
_____ UST system undergoing change-in-service
_____ UST system permanently closed-in-place
X UST system permanently closed with tank removed
_____ Required by Ecology or delegated agency for UST system closed before December 22, 1988
_____ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	MRC	
2. Has a release from the UST system been confirmed? *NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.*		MRC
3. Are the results of the site check/site assessment enclosed with this checklist? *NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.*	MRC	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

4-12-91
Date

Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

6-3-91
Date

Michele L. Britton
Signature of Tank Owner or Authorized Representative

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Page 2 of 2
Lab No. 17042
April 16, 1991

GLENWOOD

Lab Sample No.	RUSH 5	RUSH 6	RUSH 7	RUSH 8
Client Identification	2-1-GW041291	3-1-GW041291	1-1-GWPIC-041291	2-1-GWPIC-041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	0.21
Toluene	< 0.05	< 0.05	< 0.05	1.60
Ethyl Benzene	< 0.05	< 0.05	< 0.05	0.48
Xylenes	< 0.05	< 0.05	0.22	4.29
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	8.7	30.7	36.0	43.5

Note - BTEX and TPH 8015 results reported on an as received basis.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 16, 1991

Report On: Analysis of Soil

Lab No.: 17042

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	RUSH 1	RUSH 2	RUSH 3	RUSH 4
Client Identification	1-1-FR041291	2-1-FR041291	3-1-FR041291	1-1-GW041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
Ethyl Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Xylenes	< 0.05	< 0.05	0.08	0.06
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	28.7	14.5	9.4	9.1

Note - BTEX and TPH 8015 results reported on an as received basis.

Continued . . . .

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS
4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 15, 1991

Report On: Analysis of Soil

Lab No.: 17041

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

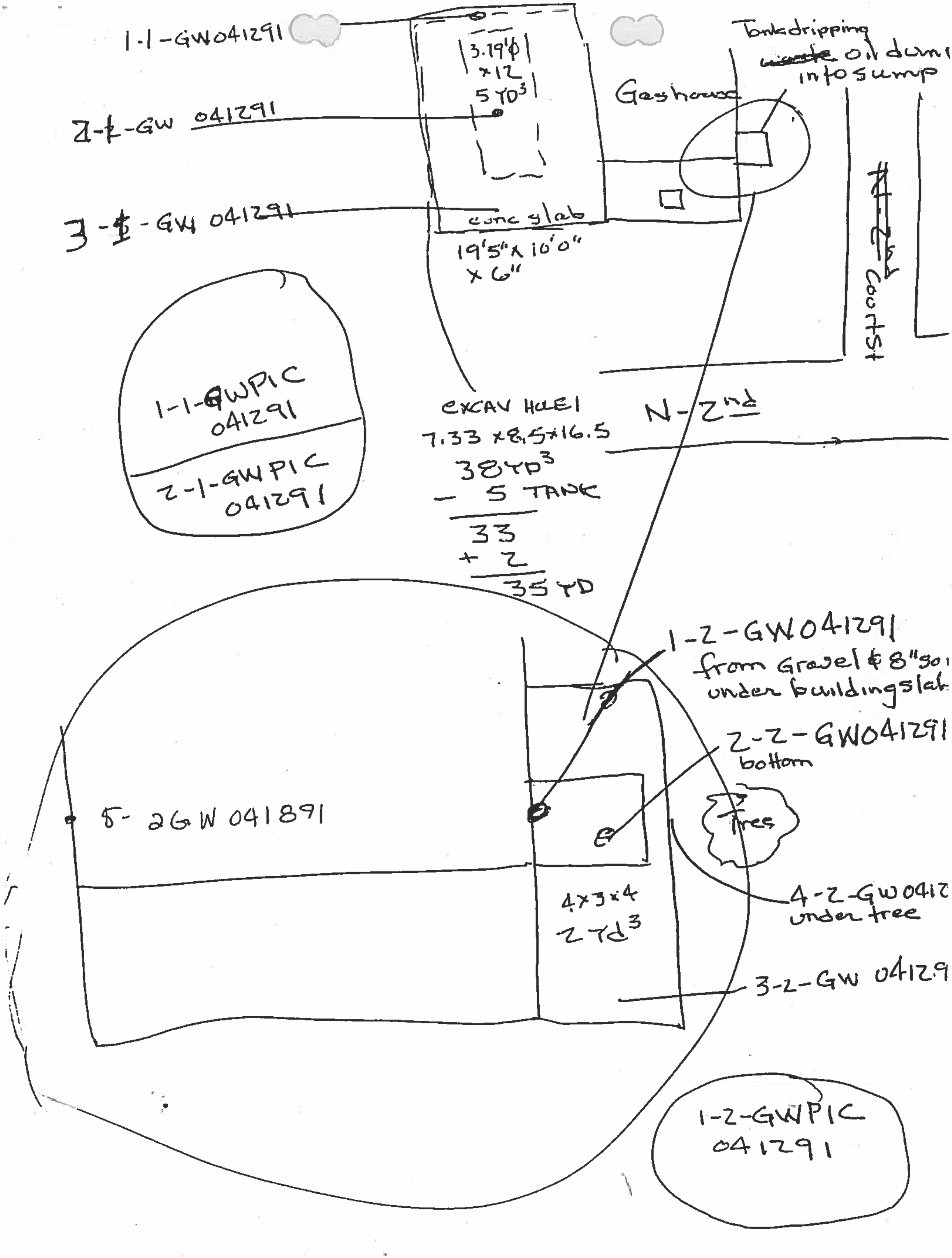
ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, ppm by EPA Method 418.1
RUSH 1	1-2-GW041291	4,400
RUSH 2	2-2-GW041291	530
RUSH 3	3-2-GW041291	1,500
RUSH 4	4-2-GW041291	8,000
RUSH 5	1-2-GWPIC041291	23,000

Glenwood oil sump hole

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST


1-1-GW041291
2-1-GW 041291
3-1-GW 041291
3.19'Ø
x12
5 YD3
conc slab
19'5" x 10'0"
x 6"
Gashouse
Tankdripping
oil dum
into sump
N-2nd
Court St
1-1-GWPIC
041291
2-1-GWPIC
041291
EXCAV HOLE1
7.33 x 8.5 x 16.5
38 YD3
- 5 TANK
33
+ 2
35 YD
1-2-GW041291
from Gravel & 8" go
under building slab
2-2-GW041291
bottom
Tree
5-2GW 041891
4x3x4
2 Yd3
4-2-GW 0412
under tree
3-2-GW 04129
1-2-GWPIC
041291

SOUND ANALYTICAL SERVICES, INC.

WA State Dept. of Natural Resources
Page 2 of 2
Lab No. 17042
April 16, 1991

GLENWOOD

Lab Sample No.	RUSH 5	RUSH 6	RUSH 7	RUSH 8
Client Identification	2-1-GW041291	3-1-GW041291	1-1-GWPIC-041291	2-1-GWPIC-041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	0.21
Toluene	< 0.05	< 0.05	< 0.05	1.60
Ethyl Benzene	< 0.05	< 0.05	< 0.05	0.48
Xylenes	< 0.05	< 0.05	0.22	4.29
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	8.7	30.7	36.0	43.5

Note - BTEX and TPH 8015 results reported on an as received basis.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 16, 1991

Report On: Analysis of Soil

Lab No.: 17042

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

ANALYSIS:

Lab Sample No.	RUSH 1	RUSH 2	RUSH 3	RUSH 4
Client Identification	1-1-FR041291	2-1-FR041291	3-1-FR041291	1-1-GW041291
Units	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
Ethyl Benzene	< 0.05	< 0.05	< 0.05	< 0.05
Xylenes	< 0.05	< 0.05	0.08	0.06
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	< 10	< 10	< 10	< 10
Total Lead	28.7	14.5	9.4	9.1

Note - BTEX and TPH 8015 results reported on an as received basis.

Continued . . . .

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS
4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: WA State Dept. of Natural Resources

Date: April 15, 1991

Report On: Analysis of Soil

Lab No.: 17041

IDENTIFICATION:
Samples Received on 04-15-91
Project: W. Washington UST Removal

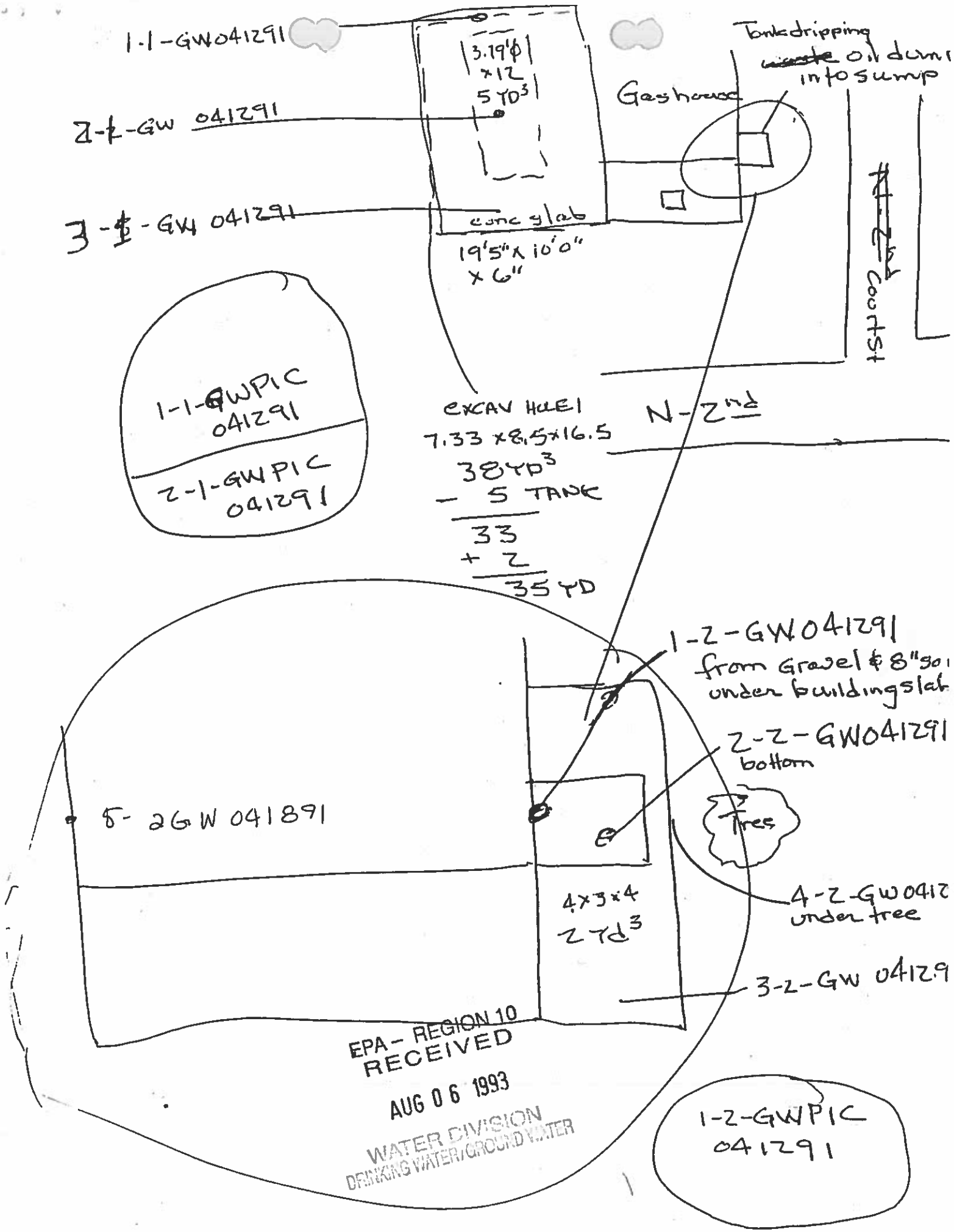
ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, ppm by EPA Method 418.1
RUSH 1	1-2-GW041291	4,400
RUSH 2	2-2-GW041291	530
RUSH 3	3-2-GW041291	1,500
RUSH 4	4-2-GW041291	8,000
RUSH 5	1-2-GWPIC041291	23,000

Glenwood oil sump hole

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST



UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: D.N.R.

Owners Address: Street _____ P.O. Box _____

City _____ State _____ ZIP-Code _____

Telephone: (206) 753-2093 (Frank Rush)

Site ID Number (on invoice or available from Ecology if tank is registered): 100503

Site/Business Name: Glenwood Work Center

Site Address: Street _____ County _____

Glenwood City WA. State _____ ZIP-Code _____

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: Tecon Inc. License Number: S001692

Address: P.O. Box 112137. Street _____ P.O. Box _____

Tacoma City WA State 98411-2137 ZIP-Code

Telephone: (206) 581-8934

Licensed Supervisor: Michael Curry Decommissioning License Number: W000354

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): #1
2. Year installed: 1974
3. Tank capacity in gallons: 1000
4. Date of last use:
5. Last substance stored: Unleaded
6. Date of closure/change-in-service: 4-8-91
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance:
9. If change-in-service, indicate new substance stored in tank:
10. Local permit(s) (if any) obtained from: Demo Permit County

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes [X] No [ ]

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	MRC		
2. Has all product piping been capped or removed?	MRC		
3. Have all non-product lines been capped or removed?	MLL		
4. Have all liquid and accumulated sludges been removed from the tank?	MRC		
5. Has the tank been properly purged or inerted?	MLC		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	MRC		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	MRC		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	MRC		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	MRC		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

7-9-91
Date

Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

7-9-91
Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

7-16-91
Date

Signature of Tank Owner or Authorized Representative

4260107 - 341
WAH 100 503

NOTICE OF UNDERGROUND STORAGE TANK REMOVAL / CLOSURE

Site Owner/Operator: Washington Dept Natural Resources
Site Address: Corner of Court 4 North 2NO Street, Glenwood, WA
Telephone: ~~(509)~~ (206) 902-1162

Tank(s) was previously ( ) Registered ( ) Never Registered
Facility ID (Notification) Number: [redacted] 4-260107

Removal / Closure Performed by:
Company: E.P. Johnson Construction Telephone: (509) 735-2479
Date last used: UNK Date of closure: 2/28/91
Method of Closure: (X) Removal ( ) In-place Closure
If closed in-place, type of fill used: _____

How will old tank(s) be disposed of? (X) Scrap
( ) Landfill
( ) Other (specify) _____
Disposal Location: _____

TANKS REMOVED OR CLOSED

Tank ID #	Age	Size	Last Material Stored
1	UNK	1000	?

Will tanks be replaced by new underground tanks? ( )Yes (X)No
(Note: If yes, you must submit a notification form for the new tanks.)

Was closure inspected by any local or EPA officials?
Inspecting Agency: _____ Inspector name: Tom Sunday
Registered Site Assessor.

Site assessment was completed and ( ) No contamination was found
E.P. Johnson Construction (X) Contamination was found
(Tom Sunday)

(Note: EPA regulations do not establish any contaminated soil criteria. If any laboratory analyses indicate more than 200 ppm total petroleum hydrocarbons in a soil sample, contact the nearest EPA Operations office (below) for assistance. **A copy of the site assessment lab results must accompany this form to effectively close your file.**

Owner/Operator Signature: _____ Date: _____

EPA Generated Form Rmp 2/17/93

Return completed form to:

Environmental Protection Agency
Underground Storage Tank Program
1200 Sixth Avenue, WD-139
Seattle, Washington 98101

For discussion of soil analyses or other closure information, contact the EPA Operations Office nearest you:

EPA Washington Operations Office, (Lacey): (206) 753-9543
EPA Idaho Operations Office, (Boise): (208) 334-9507
EPA Oregon Operations Office, (Portland): (503) 326-2676
EPA Alaska Operations Office, (Anchorage): (907) 271-5083

v.08.20.92

OMB NO. 2050-0068, Approval Expires 9/30/91
EPA form 7530-1 (Revised 9/88)

Notification for Underground Storage Tanks

Agency Name and Address
U.S. EPA Region 10, Underground Storage Tank Program, 1200 Sixth Avenue WD-139, Seattle WA 98101

WDOE# 100503

TYPE OF NOTIFICATION

☒ A. NEW FACILITY ☐ B. AMENDED ☒ C. CLOSURE

___ No. of tanks at facility ___ No. of continuation sheets attached

INSTRUCTIONS

Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

STATE USE ONLY

ID NUMBER 4-260107-341

DATE RECEIVED 2/9/93

A. Date Entered Into Computer 2/16/93

B. Data Entry Clerk Initials mp

C. Owner Was Contacted to Clarify Responses. Comments

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

b) in the case of any underground storage tank in use before November 8, 1984, but no longer is use on that date, any person who owned such tank immediately before the discontinuation of its use.

c) If the State agency so requires, any facility that has undergone any changes to facility information or tank system status (only amended tank information needs to be included).

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Send completed forms to:

U.S. EPA Region 10
Underground Storage Tank Program
1200 Sixth Avenue WD-139
Seattle, WA 98101

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use. 3. If the State requires notification of any amendments to the facility send information to State agency immediately.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Street Address
Washington Dept of Natural Resources

City P.O. Box 47630 State Olympia ZIP Code 98504-7030

County Thurston

Phone Number (Include Area Code)
(206) 902-1162

II. LOCATION OF TANK(S)

If required by State, give the geographic location of tanks by degrees, minutes, and seconds. Examples Lat. 42, 36, 12 N Long. 85, 24, 17W

Latitude _____ Longitude _____

(If same as Section I, mark box here ☐)

Facility Name or Company Site Identifier, as applicable

Street Address (P.O. Box not acceptable)
Corner of Court & North 2nd Street

City Glenwood State WA Zip code

County Municipality

EPA Generated Notification Form 2/16/93 mp

III. TYPE OF OWNER

- ☐ Federal Government
- ☐ Commercial
- ☒ State Government
- ☐ Private
- ☐ Local Government

IV. [redacted]N LANDS

Tanks are located on land within an Indian Reservation or on other trust lands. ☒

Tanks are owned by native American nation, tribe, or individual. ☐

Tribe or Nation: YAKIMA

V. TYPE OF FACILITY

Select the Appropriate Facility Description

____ Gas Station	____ Railroad	____ Trucking/Transport
____ Petroleum Distributor	____ Federal - Non-Military	____ Utilities
____ Air Taxi (Airline)	____ Federal - Military	____ Residential
____ Aircraft Owner	____ Industrial	____ Farm
____ Auto Dealership	____ Contractor	____ Other (Explain) ____

VI. CONTACT PERSON IN CHARGE OF TANKS

Name	Job Title	Address	Phone Number (Include Area Code)
Opeyemi Dekimbo	WDNR Contact		206-902-1162

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with 40 CFR Subpart H ☐

Check All that Apply

☐ Self Insurance	☐ Guarantee	☐ State Funds
☐ Commercial Insurance	☐ Surety Bond	☐ Trust Fund
☐ Risk Retention Group	☐ Letter of Credit	☐ Other Method Allowed Specify

VIII. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative (Print)	Signature	Date Signed

EPA estimates public reporting burden for this form to average 30 minutes per response including time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding this burden estimate to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M Street, Washington D.C. 20460, marked "Attention Desk Officer for EPA." This form amends the previous notification form as printed in 40 CFR Part 280, Appendix I. Previous editions of this notification form may be used while supplies last.

IX. DESCRIPTION OF [illegible]RGROUND STORAGE TANKS (Complet[illegible]ch tank at this location.)

Tank Identification Number	Tank No. 1	Tank No. ____	Tank No. ____	Tank No. ____	Tank No. ____
1. Status of Tank (mark only one)					
Currently in Use					
Temporarily Out of Use (Remember to fill out section X.)					
Permanently Out of Use (Remember to fill out section X.)	X				
Amendment of Information					
2. Date of Installation (mo./year)					
3. Estimated Total Capacity (gallons)	1000				
4. Material of Construction (Mark all that apply)					
Asphalt Coated or Bare Steel					
Cathodically Protected Steel					
Epoxy Coated Steel					
Composite (Steel with Fiberglass)					
Fiberglass Reinforced Plastic					
Lined Interior					
Double Walled					
Polyethylene Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Please specify					
Has tank been repaired?					
5. Piping (Material) (Mark all that apply)					
Bare Steel					
Galvanized Steel					
Fiberglass Reinforced Plastic					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, Please specify					
6. Piping (Type) (Mark all that apply)					
Suction: no valve at tank					
Suction: valve at tank					
Pressure					
Gravity Feed					
Has piping been repaired?					

Tank Identification Number	Tank No.____	Tank No.____	Tank No.____	Tank No. ____	Tank No. ____
7. Substance Currently or Last Stored In Greatest Quantity by Volume					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Other, Please specify					
Hazardous Substance CERCLA name and/or, CAS number					
Mixture of Substances Please specify					

X. TANKS OUT OF USE, OR CHANGE IN SERVICE

1. Closing of Tank					
A. Estimated date last used (mo./day/year)					
B. Estimate date tank closed (mo./day/year)	2/28/91				
C. Tank was removed from ground					
D. Tank was closed in ground					
E. Tank filled with inert material					
Describe					
F. Change in service					
2. Site Assessment Completed	X				
Evidence of a leak detected	X				

XI. CERTIFICATION OF CO[illegible]NCE (COMPLETE FOR ALL NEW AND U[illegible]ED TANKS AT THIS LOCATION)

Tank Identification Number	Tank No. ____	Tank No. ____	Tank No. ____	Tank No. ____	Tank No. ____
1. Installation					
A. Installer certified by tank and piping manufacturers	☐	☐	☐	☐	☐
B. Installer certified or licensed by the implementing agency	☐	☐	☐	☐	☐
C. Installation inspected by a registered engineer	☐	☐	☐	☐	☐
D. Installation inspected and approved by implementing agency	☐	☐	☐	☐	☐
E. Manufacturer's installation check-lists have been completed	☐	☐	☐	☐	☐
F. Another method allowed by State agency. Please specify.	☐	☐	☐	☐	☐

2. Release Detection (Mark all that apply)	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A. Manual tank gauging	☐		☐		☐		☐		☐	
B. Tank tightness testing	☐		☐		☐		☐		☐	
C. Inventory controls	☐		☐		☐		☐		☐	
D. Automatic tank gauging	☐		☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. Interstitial monitoring double walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring/secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Automatic line leak detectors	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Line tightness testing		☐		☐		☐		☐		☐
K. Other method allowed by Implementing Agency. Please specify.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	_____		_____		_____		_____		_____	

3. Spill and Overfill Protection					
A. Overfill device installed	☐	☐	☐	☐	☐
B. Spill device installed	☐	☐	☐	☐	☐

OATH: I certify the information concerning installation that is provided in section XI is true to the best of my belief and knowledge.

Installer:

_____ Name

_____ Signature

_____ Date

_____ Position

_____ Company

6.3 ppm lead

Water tests show:

60 ppm TPH gas
3,000 ppm xylene

As another issue, he said that there had been a post dip pit west of Court St. from the site.

10/28/92: Tom Sunday called and said that WDNR was rebidding the work on the site and that his company would not be bidding.

(Tried making contact with Dehimbo, but had trouble connecting.)

1/6/93: Talked to Obe Dehimbo, WDNR. Explained EPA's authority on Indian lands. He said that there was no release detected during the UST pull 2 years ago. He felt that they had problems with the contractor. There was contamination from heavy oils from an unknown source. The UST that was pulled was in good condition. **Did not know where the contamination came from.** He suspects there was some foul play. He plans to move the stockpile to State land to landfarm it. Personnel are going to properly trained to manage the soil. He will send a copy of the original UST Site Assessment to me.

12/21/92: Tom Sunday called. He said that they have about 1,200 cubic yards of gas contaminated soils stockpiled on site, otherwise it is cleaned up. Report will be forthcoming to WDNR in January 1993.

1/25/93: Received a copy of the original UST site assessment report. (sent to you today)

1/27/93: Obe Dehimbo, WDNR, called to ask if a permit was required to transport the stockpile. If it designates as a hazardous waste he would need a permit.

1/28/93: Obe Dehimbo, WDNR, called and said that state rules do not require a transporter number, nor does the county. (on voice mail)

I returned his call and told him that since it was on an Indian reservation the federal RCRA rules would govern and gave him Jack Boller's number (WOO).

1/29/93: Obe Dehimbo called and said that the soil from the sump, used as an UST, had been excavated (30 yards). Other soils did not have oils. He will send the final results on the excavations to close out this file.

CC: R10WD1(GPRICE)

4260107

From: ROBERT B CUTLER (RCUTLER)
To: R10WD1(HSCOTT)
Date: Tuesday, February 9, 1993 3:01 pm
Subject: Glenwood-WDNR LUST Site

9/25/92: Tom Sunday, E.P. Johnson Construction, in providing an update on the Glenwood-Klickitat County Shop, told me about another project he was working on for WDNR in Glenwood. WDNR had not reported any cleanup to EPA, so I queried him further.

Site borders on the corner of Court and N. 2nd St. They had dug a 40' x 40' x 21' (deep) excavation. Groundwater was at 13'. Pumped and stored about 10,000 gallons of water in two temporary above-ground tanks on site. Groundwater removed showed 60 ppm TPH gas. Soil removed showed up to 16,000ppm TPH. Used test pits to confirm that it had not moved past the excavated area. Had to decide whether to do landfarming on site of 800-900 cubic yards or to stockpile and insert air venting pipes in the pile.

He said that everything was out of the pit, as confirmed by final sampling.

Problem was said to have originated when WDNR pulled out a 1,000 gallon UST 2 years ago. They removed the evident contamination and back filled with the contaminated fill they had excavated. Did not know who had removed.

He had removed the slab where the dispenser had been and discoverd gas in the soil. There was also a test pit dug to the north of the excavation where there had been an old wash rack and oil change pit (12' x 15' x15'), where he removed all the oil contaminated material.

He said the WDNR site assessor wanted Tom to submit a report to them and then WDNR would write up their own report for submitting to Ecology.

10/6/92: Susan Burgdorff, WDOE, CRO- Said that they had no reports of any LUST activitiy on the site.

10/23/92: Made a site visit. Video taken. Site report wriiten (sent by pouch today).

10/27/92: Tom Sunday called. He said that there is a new WDNR site manager: Opeyemi Dehimbo, 206-902-1162. There is a pile on site now that is 70' x 70' x 6'. He is looking at aerating on site using 6" perforated pipe set at 2' horizontal intervals and with 2" vertical breathers, in conjunction with blowers to remediate the soil pile. No benzene shows in the soil tests, but other results are:

16,000 TPH gas (highest reading)
250,000 ppb toluene
250,000 ppb ethylbenzene
100,000 ppb xylene

4260107-341

From: ROBERT B CUTLER (RCUTLER)
To: R0WOO1:OLYMPIA:Seattle:R10MD1:R10WD1:GPRICE
Date: Wednesday, February 10, 1993 7:44 am
Subject: Glenwood-WDNR LUST Site -Reply -Reply

They have contamination. Original SA showed clean. Followup showed dirty. Awaiting site characterization report. No notification form sent- site notification information at Ecology (i.e., you can contact them for a transfer).

Robert/WOO